



JUNOS™
Internet Software

**System Log Messages
Reference**

Release 5.5

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About This Manual

This chapter provides a high-level overview of the *JUNOS Internet Software System Log Messages* manual.

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- Documentation Conventions on page xxii
- List of Technical Publications on page xxii
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- How to Request Support on page xxiv

Objectives

This manual describes system log messages generated by the JUNOS Internet software. Use the information in the manual to interpret system log messages and determine the appropriate corrective action for error conditions.

This manual documents Release 5.5 of the JUNOS Internet software. To obtain additional information about the JUNOS software—either corrections to information in this manual or information that might have been omitted from this manual—refer to the software release notes.

This manual is not provided in printed form, but is included on the documentation CD-ROM. To obtain the most current version of this manual and the most current version of the software release notes, refer to the product documentation page on the Juniper Networks Web site, which is located at <http://www.juniper.net/>. To order printed copies of other Juniper Networks manuals or a documentation CD-ROM, please contact your sales representative.

**Note**

This version of the *JUNOS Internet Software System Log Messages* manual documents only some of the JUNOS system log messages. The project to document these messages is ongoing, and this manual will be updated for each release of the JUNOS Internet software.

Audience

This manual is designed for network administrators who are configuring or monitoring a Juniper Networks router. It assumes that you have a broad understanding of networks in general, the Internet in particular, networking principles, and network configuration. This manual assumes that you are familiar with one or more of the following Internet routing protocols: Border Gateway Protocol (BGP), Routing Information Protocol (RIP), Intermediate System-to-Intermediate System (IS-IS), Open Shortest Path First (OSPF), Internet Control Message Protocol (ICMP) router discovery, Internet Group Management Protocol (IGMP), Distance Vector Multicast Routing Protocol (DVMRP), Protocol Independent Multicast (PIM), Multiprotocol Label Switching (MPLS), Resource Reservation Protocol (RSVP), and Simple Network Management Protocol (SNMP).

The target audiences for this manual are:

- Network Operation Center (NOC) personnel who are analyzing system files
- Operations support staff who write the rules for system log parsing tools, such as MicroMuse NetCool
- Personnel who configure the router

Document Organization

This manual contains the following parts and chapters:

- Preface, “About This Manual” (this chapter), provides a brief description of the contents and organization of this manual and describes how to obtain customer support.
- Part 1, “Overview,” provides an introduction to JUNOS system log messages:
 - Chapter 1, “System Log Messages Overview,” provides an overview of how to configure system logging and interpret system log messages.
- Part 2, “System Log Messages,” lists the system log messages generated by each JUNOS software process, organized alphabetically by the prefix on the message code:
 - Chapter 2, “BOOTPD System Log Messages,” describes the system log messages generated by the boot parameter process (tnp.bootpd).
 - Chapter 3, “FSAD System Log Messages,” describes the system log messages generated by the File System Access process (fsad).
 - Chapter 4, “GGSN System Log Messages,” describes system log messages generated by the Services Physical Interface Cards (PICs) process (serviced).
 - Chapter 5, “JADE System Log Messages,” describes the system log messages generated by the JUNOScript authentication process (jade).
 - Chapter 6, “LIBJNX System Log Messages,” describes system log messages generated by routines in the libjuniper library.
 - Chapter 7, “LIBSERVICED System Log Messages” describes system log messages generated by the Services PICs process (serviced).
 - Chapter 8, “MIB2D System Log Messages,” describes the system log messages generated by the Management Information Base II (MIB II) process (mib2d).
 - Chapter 9, “NASD System Log Messages,” describes the system log messages generated by the Network Access Server process (nasd).
 - Chapter 10, “PWC System Log Messages,” describes the system log messages generated by the Process Watch Controller process (pwc).
 - Chapter 11, “RMOPD System Log Messages,” describes the system log messages generated by the Simple Network Management Protocol (SNMP) remote operations process (rmopd).
 - Chapter 12, “RPD System Log Messages,” describes the system log messages generated by the routing protocol process (rpd).
 - Chapter 13, “SERVICED System Log Messages” describes system log messages generated by the Services PICs process (serviced).
 - Chapter 14, “SNMP System Log Messages,” describes the system log messages generated by processes that perform SNMP operations or generate SNMP traps.
 - Chapter 15, “SNMPD System Log Messages,” describes the system log messages generated by the SNMP agent process (snmpd).

- Chapter 16, “TFTP System Log Messages,” describes the system log messages generated by the Trivial File Transfer Protocol (TFTP) process (tnp.tftpd).
- Chapter 17, “UI System Log Messages,” describes the system log messages related to the user interface, generated by the command-line interface (CLI) and the management process (mgd).

This manual also contains an index.

Chapter Organization

Most chapters in this manual consist of reference entries for the system log messages generated by a JUNOS software process. For information about the sections in each entry, see “Interpret System Log Message Descriptions” on page 15.

Documentation Conventions

This manual uses the following text conventions:

- Statements, commands, filenames, directory names, IP addresses, and configuration hierarchy levels are shown in a sans serif font. In the following example, `stub` is a statement name and `[edit protocols ospf area area-id]` is a configuration hierarchy level:

To configure a stub area, include the `stub` statement at the `[edit protocols ospf area area-id]` hierarchy level:

- In examples, text that you type literally is shown in bold. In the following example, you type the word `show`:

```
[edit protocols ospf area area-id]  
cli# show  
stub <default-metric metric>
```

- Examples of command output are generally shown in a fixed-width font to preserve the column alignment. For example:

```
> show interfaces terse  
Interface      Admin Link Proto Local                               Remote  
at-1/3/0       up    up  
at-1/3/0.0     up    up   inet  1.0.0.1                               --> 1.0.0.2  
               iso  
fxp0           up    up  
fxp0.0         up    up   inet  192.168.5.59/24
```

List of Technical Publications

Table 1 lists the software and hardware books for Juniper Networks routers and describes the contents of each book.

Table 1: Juniper Networks Technical Documentation

Book	Description
JUNOS Internet Software Configuration Guides	

Book	Description
<i>Getting Started</i>	Provides an overview of the JUNOS Internet software and describes how to install and upgrade the software. This manual also describes how to configure system management functions and how to configure the chassis, including user accounts, passwords, and redundancy.
<i>Interfaces and Class of Service</i>	Provides an overview of the interface and class-of-service functions of the JUNOS Internet software and describes how to configure the interfaces on the router.
<i>MPLS Applications</i>	Provides an overview of traffic engineering concepts and describes how to configure traffic engineering protocols.
<i>Multicast</i>	Provides an overview of multicast concepts and describes how to configure multicast routing protocols.
<i>Network Management</i>	Provides an overview of network management concepts and describes how to configure various network management features, such as SNMP, accounting options, and cflowd.
<i>Policy Framework</i>	Provides an overview of policy concepts and describes how to configure routing policy, firewall filters, and forwarding options.
<i>Routing and Routing Protocols</i>	Provides an overview of routing concepts and describes how to configure routing, routing instances, and unicast routing protocols.
<i>VPNs</i>	Provides an overview of Layer 2 and Layer 3 Virtual Private Networks (VPNs), describes how to configure VPNs, and provides configuration examples.
JUNOS Internet Software References	
<i>Operational Mode Command Reference: Interfaces</i>	Describes the JUNOS Internet software operational mode commands you use to monitor and troubleshoot Juniper Networks routers.
<i>Operational Mode Command Reference: Protocols, Class of Service, Chassis, and Management</i>	Describes the JUNOS Internet software operational mode commands you use to monitor and troubleshoot Juniper Networks routers.
<i>System Log Messages Reference</i>	Describes how to access and interpret system log messages generated by JUNOS software modules and provides a reference page for each message.
JUNOScript API Documentation	
<i>JUNOScript API Guide</i>	Describes how to use the JUNOScript API to monitor and configure Juniper Networks routers.
<i>JUNOScript API Reference</i>	Provides a reference page for each tag in the JUNOScript API.
JUNOS Internet Software Comprehensive Index	
<i>Comprehensive Index</i>	Provides a complete index of all JUNOS Internet software books and the <i>JUNOScript API Guide</i> .
Hardware Documentation	
<i>Hardware Guide</i>	Describes how to install, maintain, and troubleshoot routers and router components. Each router platform (M5 and M10 routers, M20 router, M40 router, M40e router, M160 router, and T640 routing node) has its own hardware guide.
<i>PIC Guide</i>	Describes the router Physical Interface Cards (PICs). Each router platform has its own PIC guide.

Documentation Feedback

We are always interested in hearing from our customers. Please let us know what you like and do not like about the Juniper Networks documentation, and let us know of any suggestions you have for improving the documentation. Also, let us know if you find any mistakes in the documentation. Send your feedback to tech-doc@juniper.net.

How to Request Support

For technical support, contact Juniper Networks at support@juniper.net, or at 1-888-314-JTAC (within the United States) or 408-745-2121 (from outside the United States).

Part 1

Overview

- System Log Messages Overview on page 3

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Chapter 1

System Log Messages Overview

The JUNOS software processes running on the router generate system log messages (also called syslog messages) to record events that occur on the router, including the following:

- Routine operations, such as creation of an Open Shortest Path First (OSPF) protocol adjacency or a user login into the configuration database
- Failure and error conditions, such as failure to access a configuration file or unexpected closure of a connection to a child or peer process
- Emergency or critical conditions, such as router power-down due to excessive temperature

Each system log message identifies the software process that generated the message and briefly describes the operation or error that occurred. This manual provides more detailed information about each system log message and, when applicable, describes possible causes of the message and action you can take to correct error conditions.



Note

This version of the *JUNOS Internet Software System Log Messages* manual documents only some of the JUNOS system log messages. Future revisions of this manual, which generally will be released with new versions of the JUNOS Internet software, will likely include additional messages.

This chapter discusses the following topics:

- Configure System Logging on page 4
- Display System Log Messages on page 11
- System Log Message Code Prefixes on page 13
- Display System Log Message Descriptions on page 14
- Interpret System Log Message Descriptions on page 15

Configure System Logging

To configure the router to log system messages, include the syslog statement at the [edit system] hierarchy level:

```
[edit system]
syslog {
  archive {
    files number;
    size size;
    (world-readable | no-world-readable);
  }
  file filename {
    facility level;
    archive {
      files number;
      size size;
      (world-readable | no-world-readable);
    }
  }
  host hostname {
    facility level;
    facility-override facility;
    log-prefix string;
  }
  user (username | *) {
    facility level;
  }
  console {
    facility level;
  }
}
```

The JUNOS system logging utility is similar to the UNIX syslogd utility, and includes the following features:

- You can direct messages to one or more destinations:
 - To a named file in a local file system, by including the file statement
 - To a remote machine that is running the syslogd utility, by including the host statement
 - To the terminal session of one or more specific users (or all users) when they are logged into the router, by including the user statement
 - To the router console, by including the console statement
- Each message is assigned to a *facility*, which is a group of messages that are either generated by the same software process or concern a similar condition or activity (such as authentication attempts). To log the messages belonging to one or more facilities to a particular destination, specify each facility name as a separate statement within the set of statements for the destination. Table 2 lists the JUNOS system logging facilities.
- Each message is assigned a *severity level*, which indicates how seriously it affects router functioning. When you configure logging for a facility and destination, you specify a severity level for each facility; messages that belong to the facility and are rated at that level or higher are logged to the destination. Table 3 lists the severity levels in order from highest to lowest.

- To prevent log files from growing too large, the JUNOS system logging utility by default writes messages to a sequence of files of a defined size. You can configure the number of files, their maximum size, and who can read them. For more information, see “Configure Archiving of Log Files” on page 6.
- When directing messages to a remote machine, you can configure features that make it easier to separate out JUNOS-specific messages or messages generated on particular routers. For more information, see “Configure Handling of Messages Directed to a Remote Machine” on page 6.

Table 2: JUNOS System Logging Facilities

Facility	Type of Event or Error
any	Any (that is, includes messages from all facilities)
authorization	Authentication and authorization attempts
change-log	Change to the JUNOS configuration
conflict-log	Configuration that is inconsistent with router hardware
cron	Actions performed or errors encountered by the cron daemon
daemon	Actions performed or errors encountered by various system daemons
firewall	Packet filtering actions performed by a firewall filter
interactive-commands	Commands issued at the JUNOS command-line interface (CLI) prompt
kernel	Actions performed or errors encountered by the JUNOS kernel
pfe	Actions performed or errors encountered by the Packet Forwarding Engine
user	Actions performed or errors encountered by various user-space processes

Table 3: System Log Message Severity Levels

Severity Level	Description
emergency	System panic or other condition that causes the router to stop functioning.
alert	Conditions that require immediate correction, such as a corrupted system database.
critical	Critical conditions, such as hard drive errors.
error	Error conditions that generally have less serious consequences than errors in the emergency, alert, and critical levels.
warning	Conditions that warrant monitoring.
notice	Conditions that are not errors but might warrant special handling.
info	Events or nonerror conditions of interest.
debug	Software debugging messages. Specify this level only when so directed by a technical support representative.

For a statement summary for the syslog statement, see the *JUNOS Internet Software Configuration Guide: Getting Started*.

For information about special logging features and for examples, see the following sections:

- Configure Archiving of Log Files on page 6
- Configure Handling of Messages Directed to a Remote Machine on page 6
- Examples: Configure System Logging on page 9

Configure Archiving of Log Files

By default, the JUNOS logging facility stops writing messages to a log file when the file reaches 128 KB in size. It closes the file and adds a numerical suffix, then opens and directs messages to a new file with the original name. By default, it creates up to 10 files before it begins overwriting the contents of the oldest file. The logging utility by default also limits the users who can read log files to the root user and users who have the JUNOS maintenance permission.

To configure different values that apply to all log files, include the archive statement at the [edit system syslog] hierarchy level:

```
[edit system syslog]
archive {
  files number;
  size size;
  (world-readable | no-world-readable);
}
```

To configure different values that apply to a particular log file, include the archive statement at the [edit system syslog file *filename*] hierarchy level:

```
[edit system syslog]
file filename {
  facility level;
  archive {
    files number;
    size size;
    (world-readable | no-world-readable);
  }
}
```

To specify the number of files to create, set the files statement to a value from 1 through 1000.

To specify the maximum size of each file, set the size statement to a value from 64 KB (64k) through 1 GB (1g).

To enable all users to read log files, include the world-readable statement. To restore the default permissions, include the no-world-readable statement.

Configure Handling of Messages Directed to a Remote Machine

By default, messages directed to a remote machine retain the facility to which they belong on the local machine, meaning that the logging utility on the remote machine handles them in the same way as messages belonging to that facility that are generated on the remote machine.

The JUNOS logging utility includes the following features that help you separate, aggregate, or label messages directed to a remote machine:

- Assign an Alternate Facility on page 7
- Prepend a Prefix on page 8

Assign an Alternate Facility

By default, messages directed to a remote machine are handled in the same way as messages belonging to that facility that are generated on the remote machine. For example, suppose you configure the following statements on local-router to write messages from the authorization facility to a remote machine called monitor:

```
[edit system syslog]
host monitor {
    authorization info;
}
```

If the logging utility on monitor is configured to write messages belonging to the authorization facility to the file `/var/log/auth-attempts`, the file will contain both the messages generated when users log on to local-router and the messages generated when users log on to monitor. Although the name of the source machine appears in each system log message, the mixing of messages from multiple machines can still make it more difficult to analyze the contents of the `auth-attempts` file.

To assign all messages sent to a remote machine to a different facility on that machine, include the `facility-override` statement along with the `facility` statements at the `[edit system syslog host hostname]` hierarchy level:

```
[edit system syslog host hostname]
facility level;
facility-override facility;
```

On the remote machine, you must also configure the logging utility to handle the messages assigned to the alternate facility in the desired manner.

Table 4 lists the system logging facilities that you can specify in the `facility-override` statement.

Table 4: Facilities for the facility-override Statement

Facility	Description
authorization	Authentication and authorization attempts
cron	Actions performed or errors encountered by the cron daemon
daemon	Actions performed or errors encountered by various system daemons
kernel	Actions performed or errors encountered by the JUNOS kernel
local0	Local facility number 0
local1	Local facility number 1
local2	Local facility number 2
local3	Local facility number 3
local4	Local facility number 4
local5	Local facility number 5
local6	Local facility number 6
local7	Local facility number 7
user	Actions performed or errors encountered by various user-space processes

Examples: Assign an Alternate Facility

Log all messages generated on the local router at the error level or higher to the local0 facility on the remote machine called monitor:

```
[edit system syslog]
host monitor {
  any error;
  facility-override local0;
}
```

In the following example, a single remote machine called central-logger handles log messages about configuration changes for two routers located in California and two routers located in New York. The messages from California are aggregated into one facility (local1) and the messages from New York into another facility (local2).

- Configure California routers to aggregate messages in the local1 facility:

```
[edit system syslog]
host central-logger {
  change-log info;
  facility-override local1;
}
```

- Configure New York routers to aggregate messages in the local2 facility:

```
[edit system syslog]
host central-logger {
  change-log info;
  facility-override local2;
}
```

On central-logger, you could then configure the system logging utility to write messages from the local1 facility to /var/log/california-config and the messages from the local2 facility to /var/log/new-york-config.

Prepend a Prefix

To prepend a string to every system log message sent to a remote machine, include the log-prefix statement along with the *facility* statements at the [edit system syslog host *hostname*] hierarchy level:

```
[edit system syslog host hostname]
facility level;
log-prefix string;
```

The log-prefix string can contain any alphanumeric character other than a space, the equal sign (=), or the colon (:). A colon and a space are appended to the string when the system log messages are written to the log.

Example: Prepend a Prefix

Prepend the string M40 to all messages generated on the router to indicate that the router is an M40, and send the messages to the remote machine hardware-logger:

```
[edit system syslog]
host hardware-logger {
  any info;
  log-prefix M40;
}
```

When these configuration statements are included on the router original1, a message in the system logging file on hardware-logger looks like the following:

```
Mar 9 17:33:23 original1 M40: mgd[477]: UI_CMDLINE_READ_LINE: user 'root', command 'run
show version'
```

Examples: Configure System Logging

Configure the handling of messages of various types, as described in the comments. Information is logged to two files, a remote machine, the terminal of user alex, and to the console:

```
[edit system]
syslog {
  /* write all security-related messages to file "security" */
  file security {
    authorization info;
    interactive-commands info;
  }
  /* write messages about potential problems to file "messages": messages */
  /* from "authorization" facility at level "notice" and above, messages from */
  /* all other facilities at level "warning" and above */
  file messages {
    authorization notice;
    any warning;
  }
  /* write all messages at level "critical" and above to terminal of user "alex" if she */
  /* is logged in */
  user alex {
    any critical;
  }
  /* write all messages from the "daemon" facility at level "info" and above, and messages */
  /* from all other facilities at level "warning" and above, to the machine junipero.berry.net */
  host junipero.berry.net {
    daemon info;
    any warning;
  }
  /* write all messages at level "error" or above to the system console */
  console {
    any error;
  }
}
```

Configure the handling of messages generated when users issue JUNOS CLI commands, by specifying the interactive-commands facility at the following severity levels:

- **info**—Logs a message when users issue any command at the CLI operational or configuration mode prompt. The example writes the messages to the file `/var/log/user-actions`.
- **notice**—Logs a message when users issue the configuration mode commands `rollback` and `commit`. The example writes the messages to the terminal of user `philip`.
- **warning**—Logs a message when users issue a command that restarts a software process restarts. The example writes the messages to the console.

```
[edit system]
syslog {
  file user-actions {
    interactive-commands info;
  }
  user philip {
    interactive-commands notice;
  }
  console {
    interactive-commands warning;
  }
}
```

Log messages about all CLI commands entered by users, and all authentication or authorization attempts, to both the file `cli-commands` and to the terminal of any user who is logged in:

```
[edit system]
syslog {
  file cli-commands {
    interactive-commands info;
    authorization info;
  }
  user * {
    interactive-commands info;
    authorization info;
  }
}
```

Log all changes in the state of alarms to the file `alarms`:

```
[edit system]
syslog {
  file alarms {
    kernel warning;
  }
}
```

Display System Log Messages

To display system log messages, enter JUNOS CLI operational mode and issue either of the following commands:

```
user@host> show log log-filename
user@host> file show log-file-pathname
```

For more information about the commands, refer to the *JUNOS Internet Software Operational Mode Command Reference*.

System log messages have the following syntax:

```
timestamp [router-name] software-process[process-ID]: message-code: message-text
```

Table 5 describes the fields in each message.

Table 5: Fields in System Log Messages

System Log Message Field	Description
<i>timestamp</i>	Time at which the message was logged.
<i>[router-name]</i>	Router name.
<i>software-process[process-ID]:</i>	Name and process identifier (PID) of the JUNOS software process that generated the message.
<i>message-code:</i>	Code that identifies the type of message. The name begins with a prefix that identifies the generating software process. The entries in this manual are ordered alphabetically by this prefix. Table 6 lists and describes the software processes that generate the messages described in this manual.
<i>message-text</i>	Text of the system log message.

Examples: Display System Log Messages

Display the contents of the system log file `/var/log/messages`. (The `/var/log` directory is the default location for log files, so you do not need to include it in the filename. The messages filename is a commonly configured filename.)

```
# cli
user@host> show log messages
Apr 11 06:27:25 [host] mgd.last[1657]: UI_SCHEMA_MISMATCH_MINOR: Schema minor version
mismatch for pkg 6 (7. vs. 8)
Apr 11 06:27:25 [host] mgd.last[1657]: UI_DBASE_MISMATCH_SEQUENCE: Database header
sequence numbers mismatch for file '/var/db/juniper.db'
Apr 11 06:28:00 [host] mgd[629]: UI_CHILD_WAITPID: waitpid failed: pid 637, rc -1, status ffffffff:
No child processes
Apr 11 13:12:59 [host] mib2d[359]: SNMP_TRAP_LINK_DOWN: ifIndex 33, ifAdminStatus up(1),
ifOperStatus down(2), ifName at-3/1/0
```

Display the contents of the file /var/log/snmp-traps:

cli

user@host> **file show /var/log/snmp-traps**

Apr 10 19:23:41 [host] mib2d[359]: SNMP_TRAP_LINK_DOWN: ifIndex 33, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/1/0

Apr 10 19:23:41 [host] mib2d[359]: SNMP_TRAP_LINK_DOWN: ifIndex 25, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/1/0.0

Apr 10 19:23:41 [host] mib2d[359]: SNMP_TRAP_LINK_DOWN: ifIndex 21, ifAdminStatus up(1), ifOperStatus down(2), ifName at-3/2/0

System Log Message Code Prefixes

System log message names begin with a prefix that indicates which JUNOS software process or subroutine library generated the message. Table 6 lists the prefixes for the messages described in this manual, briefly describes the source process or library, and refers you to the chapter that describes the messages with that prefix.

Table 6: Prefixes for System Log Message Codes

Message Code Prefix	Generating Process or Library
BOOTPD_	Boot parameter process (tnp.bootpd), which provides the appropriate boot string to hardware components as they initialize. See "BOOTPD System Log Messages" on page 19.
FSAD_	File System Access process (fsad), which obtains boot-time information used by J20 gateway GPRS support node control-plane and user-plane (GGSN-C and GGSN-U) Physical Interface Cards (PICs) as they initialize. See "FSAD System Log Messages" on page 25.
GGSN_	Services PICs process (serviced), which provides the user interface for management and configuration of gateway GPRS support node control (GGSN-C) PICs. See "GGSN System Log Messages" on page 31.
JADE_	JUNOScript authentication process (jade), which authenticates and checks authorization of client applications using the JUNOScript API. See "JADE System Log Messages" on page 33.
LIBJNX_	The libjuniper library, which includes routines for creating and managing child processes, parsing machine and interface addresses, tracing, file I/O, and other functions. See "LIBJNX System Log Messages" on page 35.
LIBSERVICED_	Services PICs process (serviced, previously described for GGSN_ messages). See "LIBSERVICED System Log Messages" on page 39.
MIB2D_	Management Information Base II (MIB II) process (mib2d), which services requests for information gathered and reported by the Simple Network Management Protocol (SNMP). See "MIB2D System Log Messages" on page 41.
NASD_	Network Access Server process (nasd), which authenticates peers at the interface level. See "NASD System Log Messages" on page 47.
PWC_	Process Watch Controller process (pwc), which monitors GGSN-C processes for failures. See "PWC System Log Messages" on page 57.
RMOPD_	Remote SNMP operations process (rmopd), which services SNMP requests for execution of ping and traceroute operations. See "RMOPD System Log Messages" on page 65.
RPD_	Routing protocol process (rpd), which controls the routing protocols that run on the router. See "RPD System Log Messages" on page 69.
SERVICED_	Services PICs process (serviced, previously described for GGSN_ messages). See "SERVICED System Log Messages" on page 91.
SNMP_	Any JUNOS process that performs SNMP operations or is instrumented to generate a system log message when it sends an SNMP trap. See "SNMP System Log Messages" on page 101.
SNMPD_	SNMP agent process (snmpd), which responds to SNMP requests. As necessary, it passes the requests to subagent processes running on its machine and forwards the traps they generate to the SNMP manager. See "SNMPD System Log Messages" on page 105.
TFTPD_	Trivial File Transfer Protocol (TFTP) process (tnp.tftpd), which services requests from hardware components for the configuration files they use during initialization. See "TFTPD System Log Messages" on page 119.
UI_	Command-line interface (CLI) and management process (mgd), which together form the JUNOS user interface that accepts and processes input from users and client applications. See "UI System Log Messages" on page 125.

Display System Log Message Descriptions

This manual lists the messages available at the time of its publication. To display the most current list of messages, enter JUNOS CLI operational mode and issue the following command:

```
user@host> help syslog ?
```

To display the complete description of a particular message, substitute its name for the variable *code*:

```
user@host> help syslog code
```

For an description of the fields in a system log message description, see “Interpret System Log Message Descriptions” on page 15.

Examples: Display System Log Message Descriptions

Display the list of all currently available system log message descriptions:

```
user@host> help syslog ?
```

Possible completions:

<syslog-tag>	Syslog tag
BOOTPD_ARG_ERR	Command-line option was invalid
BOOTPD_BAD_ID	Request failed because assembly ID was unknown
BOOTPD_BOOTSTRING	tnp.bootpd provided boot string
BOOTPD_CONFIG_ERR	tnp.bootpd could not parse configuration file; used default settings
BOOTPD_CONF_OPEN	tnp.bootpd could not open configuration file
BOOTPD_DUP_REV	Extra boot string definitions for revision were ignored
...(more 2%)...	

Display the description of the UI_CMDLINE_READ_LINE message:

```
user@host> help syslog UI_CMDLINE_READ_LINE
```

Name: UI_CMDLINE_READ_LINE

Message: User '<user>', command '<input>'

Help: User entered command at CLI prompt

Description: The indicated user typed the indicated command at the CLI prompt and pressed the Enter key, sending the command string to the management process (mgd).

Type: Event: This message reports an event, not an error

Severity: info

Interpret System Log Message Descriptions

This manual uses a reference page format to describe system log messages. Table 7 describes the sections in a reference entry.

Table 7: System Log Message Fields

Field	Description
System Log Message	<p>Text of the message displayed on the console and placed in the log file.</p> <p>The first line is the message code in all capital letters. The prefix on each code identifies the JUNOS software process that generated the message and the rest of the code indicates the specific event or error. Table 6 lists the prefixes and processes for which this manual includes reference entries.</p> <p>The second line in this field is a brief description generated by the JUNOS software process. The process substitutes specific values for the variable names that appear in italics in the reference entries.</p>
Description	Detailed explanation of the message.
Type	<p>Category to which the message belongs:</p> <ul style="list-style-type: none"> ■ Error: The message reports an error or failure condition that might require corrective action. ■ Event: The message reports a condition or occurrence that is considered a normal operation not requiring corrective action.
Severity	Message severity level as described in Table 3.
Cause	(Optional) Possible cause of the operation that generated the system log message. There can be more than one cause.
Action	(Optional) Action to perform to resolve the error or failure condition described in the message. If this field does not appear in an entry, either no action is required or the action is self-explanatory.

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Part 2

System Log Messages

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- GGSN System Log Messages on page 31
- JADE System Log Messages on page 33
- LIBJNX System Log Messages on page 35
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- NASD System Log Messages on page 47
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Chapter 2

BOOTPD System Log Messages

This chapter describes messages generated by the boot parameter process (tnp.bootpd), which provides the appropriate boot string to hardware components as they initialize.

BOOTPD_ARG_ERR

System Log Message	BOOTPD_ARG_ERR: Ignoring unknown option <i>-option-letter</i>
Description	The indicated option was provided on the 'tnp.bootpd' command line and is invalid. The boot parameter process (tnp.bootpd) initialized but ignored the invalid option.
Type	Error: An error occurred
Severity	warning
Action	Remove the invalid option from the 'tnp.bootpd' command line.

BOOTPD_BAD_ID

System Log Message	BOOTPD_BAD_ID: Unexpected ID 0 <i>xassembly-id</i>
Description	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file tnp.bootpd. A request failed because it included the indicated assembly ID, for which there is no definition in the file.
Type	Event: This message reports an event, not an error
Severity	notice

BOOTPD_BOOTSTRING

System Log Message BOOTPD_BOOTSTRING:
Boot string: *bootstring*

Description As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). tnp.bootpd responded with the indicated boot string.

Type Event: This message reports an event, not an error

Severity info

BOOTPD_CONF_OPEN

System Log Message BOOTPD_CONF_OPEN:
Unable to open configuration file '*filename*'

Description The boot parameter process (tnp.bootpd) could not open the indicated configuration file, so it initialized using default settings defined at compile time.

Type Event: This message reports an event, not an error

Severity notice

Action Contact your technical support representative.

BOOTPD_CONFIG_ERR

System Log Message BOOTPD_CONFIG_ERR:
Problems with configuration file '*filename*', using defaults

Description The boot parameter process (tnp.bootpd) could not read the indicated configuration file, so it initialized using default settings defined at compile time.

Type Error: An error occurred

Severity error

Action Correct the configuration file.

BOOTPD_DUP_REV

System Log Message	BOOTPD_DUP_REV: Duplicate revision: <i>major.minor</i>
Description	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated revision of a component, so tnp.bootpd used the first definition it found.
Type	Event: This message reports an event, not an error
Severity	notice
Action	Remove the extra definitions from the configuration file.

BOOTPD_DUP_SLOT

System Log Message	BOOTPD_DUP_SLOT: Duplicate slot default: <i>slot</i>
Description	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. There was more than one definition in the file for the indicated slot (combination of component assembly ID and revision), so tnp.bootpd used the first definition it found.
Type	Event: This message reports an event, not an error
Severity	notice
Action	Remove the extra definitions from the configuration file.

BOOTPD_MODEL_CHK

System Log Message	BOOTPD_MODEL_CHK: Unexpected ID <i>Oxid</i> for model <i>model</i>
Description	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). A request failed because it included the indicated assembly ID, which is inconsistent with the router's model number.
Type	Error: An error occurred
Severity	warning
Action	Contact your technical support representative.

BOOTPD_MODEL_ERR

System Log Message	BOOTPD_MODEL_ERR: Unsupported model <i>model</i> , assuming M40 defaults
Description	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. A request included a model number for which there was no definition in the configuration file, so tnp.bootpd provided the boot string appropriate for an M40 router.
Type	Error: An error occurred
Severity	warning
Action	Contact your technical support representative.

BOOTPD_NEW_CONF

System Log Message	BOOTPD_NEW_CONF: New configuration installed
Description	The boot parameter process (tnp.bootpd) loaded a new configuration file.
Type	Event: This message reports an event, not an error
Severity	info

BOOTPD_NO_BOOTSTRING

System Log Message	BOOTPD_NO_BOOTSTRING: No bootstring found for type <i>board-type major:minor command-or-file</i>
Description	As each hardware component on the router initializes, it requests a boot string from the boot parameter process (tnp.bootpd). The boot strings are defined in the configuration file for tnp.bootpd. The file did not include a boot string for the hardware component with the indicated characteristics.
Type	Error: An error occurred
Severity	warning
Action	Contact your technical support representative.

BOOTPD_NO_CONFIG

System Log Message	BOOTPD_NO_CONFIG: No configuration file ' <i>filename</i> ', using defaults
Description	The boot parameter process (tnp.bootpd) could not open the indicated configuration file, so it initialized using default settings defined at compile time.
Type	Event: This message reports an event, not an error
Severity	notice

BOOTPD_PARSE_ERR

System Log Message	BOOTPD_PARSE_ERR: <i>file: number</i> parse errors on SIGHUP
Description	There was an error in the configuration file for the boot parameter process (tnp.bootpd), so it initialized using default settings defined at compile time.
Type	Error: An error occurred
Severity	error
Action	Correct the configuration file.

BOOTPD_REPARSE

System Log Message	BOOTPD_REPARSE: Reparsing configuration file ' <i>filename</i> '
Description	The boot parameter process (tnp.bootpd) reparsed the indicated configuration file.
Type	Event: This message reports an event, not an error
Severity	info

BOOTPD_SELECT_ERR

System Log Message	BOOTPD_SELECT_ERR: select: <i>error-message</i>
Description	The boot parameter process (tnp.bootpd) issued the select() system call, which returned the indicated error message.
Type	Error: An error occurred
Severity	warning
Action	Contact your technical support representative.

BOOTPD_TIMEOUT

System Log Message	BOOTPD_TIMEOUT: Timeout <i>timeout-value</i> unreasonable
Description	The indicated timeout value was specified for the -t argument on the 'tnp.bootpd' command line, or no value was provided. The value was not acceptable, so the boot parameter process (tnp.bootpd) initialized using the default value of 30 seconds.
Type	Error: An error occurred
Severity	warning
Action	Provide an acceptable value for the -t argument; acceptable values are '1' (second) and larger.

Chapter 3

FSAD System Log Messages

This chapter describes messages generated by the File System Access process (fsad), which obtains boot-time information used by J20 gateway GPRS support node control-plane and user-plane (GGSN-C and GGSN-U) Physical Interface Cards (PICs) as they initialize.

FSAD_CHANGE_FILE_OWNER

System Log Message	FSAD_CHANGE_FILE_OWNER: Unable to change ownership of file <i>[path]</i> to <i>[username]</i> : <i>reason</i>
Description	A file that is actively being written could not have its owner changed due to a configuration change.
Type	Error: An error occurred
Severity	error

FSAD_CONFIG_ERROR

System Log Message	FSAD_CONFIG_ERROR: Reason: <i>reason</i>
Description	The configuration file for the File System Access process (fsad) might contain an error.
Type	Error: An error occurred
Severity	error

FSAD_CONNTIMEDOUT

System Log Message	FSAD_CONNTIMEDOUT: Connection timed out to the client" (<i>conntype</i> , <i>ipaddr</i>) having request type <i>rport</i>
Description	The File System Access process (fsad) flushed all state information about the timed-out connection.
Type	Event: This message reports an event, not an error
Severity	error

FSAD_FAILED

System Log Message	FSAD_FAILED: In <i>enclfn</i> : <i>fn</i> () returned: <i>reason</i>
Description	An internal error occurred inside a function in the File System Access process (fsad).
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

FSAD_FETCHTIMEDOUT

System Log Message	FSAD_FETCHTIMEDOUT: Fetch to the server: <i>server</i> for file: <i>file</i> timed out
Description	The File System Access process (fsad) stopped trying a fetch operation on the indicated file.
Type	Event: This message reports an event, not an error
Severity	error

FSAD_FILE_FAILED

System Log Message	FSAD_FILE_FAILED: <i>enclfn</i> : <i>fn</i> failed for file [<i>file</i>] with message: <i>reason</i>
Description	An internal error occurred while the File System Access process (fsad) was performing a file operation.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

FSAD_FILE_STAT

System Log Message	FSAD_FILE_STAT: stat() failed for path [<i>filepath</i>]: <i>reason</i>
Description	The File System Access process (fsad) received a request for a nonexistent file.
Type	Error: An error occurred
Severity	error
Cause	The file path does not exist.
Action	Make sure the path specified in the request is valid.

FSAD_FILE_SYNC

System Log Message	FSAD_FILE_SYNC: Unable to sync file [<i>filename</i>]: <i>reason</i>
Description	As a part of closing a file, FSAD executes the sync() system call to ensure that the file changes are committed to disk. This operation failed for the specified file.
Type	Error: An error occurred
Severity	error

FSAD_MAXCONN

System Log Message	FSAD_MAXCONN: Upper limit reached in FSAD for handling "connections"
Description	The File System Access process (fsad) stopped accepting new connections because it reached an internal limit for handling connections.
Type	Event: This message reports an event, not an error
Severity	error

FSAD_MEMORYALLOC_FAILED

System Log Message	FSAD_MEMORYALLOC_FAILED: <i>alloc-func</i> failed in the function: <i>caller-func</i> (<i>caller-line</i>)
Description	The File System Access process (fsad) could not allocate memory. The system might be running low on memory.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

FSAD_NOT_ROOT

System Log Message	FSAD_NOT_ROOT: Must be run as root
Description	The user who attempted to start the File System Access process (fsad) was not the root user.
Type	Error: An error occurred
Severity	error

FSAD_PARENT_DIRECTORY

System Log Message	FSAD_PARENT_DIRECTORY: <i>directory: invalid directory: message</i>
Description	The parent directory specified in the request for a file is not valid.
Type	Error: An error occurred
Severity	error
Action	Make sure the path specified in the request is valid.

FSAD_PATH_IS_DIRECTORY

System Log Message	FSAD_PATH_IS_DIRECTORY: File path cannot be a directory [<i>filepath</i>]
Description	The File System Access process (fsad) received a request on a directory instead of a regular file.
Type	Error: An error occurred
Severity	error
Cause	The file path points to a directory.
Action	Make sure the path points to a regular file.

FSAD_PATH_IS_SPECIAL

System Log Message	FSAD_PATH_IS_SPECIAL: Not a regular file: [<i>filepath</i>]
Description	The request points to a nonregular file.
Type	Error: An error occurred
Severity	error
Cause	The request does not contain an appropriate path.
Action	Make sure the path points to a regular file.

FSAD_RECVERERROR

System Log Message	FSAD_RECVERERROR: fsad got < ERROR: <i>conntype</i> > from client having" request type <i>ipaddr</i> at (<i>rport</i> , <i>message</i>)
Description	The File System Access process (fsad) received a packet with opcode ERROR from the other end of a connection.
Type	Error: An error occurred
Severity	error

FSAD_TERMINATED_CONNECTION

System Log Message	FSAD_TERMINATED_CONNECTION: Open file <i>filename</i> closed due to process shutdown
Description	The File System Access process (fsad) terminated a connection, stored the connection's (unwritten) data to disk and purged it from its data structures.
Type	Event: This message reports an event, not an error
Severity	notice

FSAD_TERMINATING_SIGNAL

System Log Message	FSAD_TERMINATING_SIGNAL: Received terminating signal <i>signal-name</i> , preparing to clean up
Description	The File System Access process (fsad) will clean up and do sync in response to the terminating signal it received.
Type	Event: This message reports an event, not an error
Severity	info

FSAD_TRACEOPEN_FAILED

System Log Message	FSAD_TRACEOPEN_FAILED: Open on trace file: <i>path</i> returned: <i>error</i>
Description	The File System Access process (fsad) failed to open the indicated trace file.
Type	Error: An error occurred
Severity	error

FSAD_USAGE

System Log Message FSAD_USAGE:
Incorrect usage, *usage*

Description The File System Access process (fsad) displayed its usage statement.

Type Event: This message reports an event, not an error

Severity error

Cause The fsad process was not invoked with correct command-line arguments.

Action Check the usage and invoke the fsad process with the correct command-line arguments.

Chapter 4

GGSN System Log Messages

This chapter describes messages generated by the Services Physical Interface Cards (PICs) process (serviced), which provides the user interface for management and configuration of J20 gateway GPRS support node control-plane (GGSN-C) PICs.

GGSN_ALARM_TRAP_FAILED

System Log Message	GGSN_ALARM_TRAP_FAILED: <i>function: trap_request_send() failed: reason</i>
Description	An error occurred when the Services PICs process (serviced) attempted to send a trap.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.

GGSN_ALARM_TRAP_SEND

System Log Message	GGSN_ALARM_TRAP_SEND: <i>function: alarm failed: reason</i>
Description	An alarm trap to be relayed by the Services PICs process (serviced) failed to initialize.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

GGSN_TRAP_SEND

System Log Message	GGSN_TRAP_SEND: Unknown trap request type <i>trap-type</i>
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Description The system sent a GGSN trap of an unrecognized type.

Type	Error: An error occurred
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Severity notice

Cause An internal software failure occurred.

Action Contact your technical support representative.

Chapter 5

JADE System Log Messages

This chapter describes messages generated by the JUNOScript authentication process (jade), which authenticates and checks authorization of client applications using the JUNOScript application programming interface (API).

JADE_AUTH_ERROR

System Log Message	JADE_AUTH_ERROR: Authorization failed: <i>error-message</i>
Description	The username or password supplied by the client was incorrect.
Type	Error: An error occurred
Severity	error

JADE_EXEC_ERROR

System Log Message	JADE_EXEC_ERROR: CLI xml-mode exec error: <i>error-message</i>
Description	The JUNOScript authentication process (jade) could not start because of an internal error.
Type	Error: An error occurred
Severity	error

JADE_NO_LOCAL_USER

System Log Message	JADE_NO_LOCAL_USER: Local user <i>error-message</i> does not exist
Description	The JUNOScript authentication process (jade) could not find an entry for the indicated username in its database. The username was provided either by a client or was referred to by the RADIUS or TACACS+ server.
Type	Error: An error occurred
Severity	error

JADE_PAM_ERROR

System Log Message JADE_PAM_ERROR:
PAM error: *error-message*

Description The JUNOScript authentication process (jade) could not process the credentials supplied by the client.

Type Error: An error occurred

Severity error

JADE_PAM_NO_LOCAL_USER

System Log Message JADE_PAM_NO_LOCAL_USER:
Unable to get local username from PAM: *error-message*

Description The JUNOScript authentication process (jade) could not obtain a local username while processing the credentials supplied by the client.

Type Error: An error occurred

Severity error

Chapter 6

LIBJNX System Log Messages

This chapter describes messages generated by processes that call routines in the libjuniper library, which includes routines for creating and managing child processes, parsing machine and interface addresses, tracing, file I/O, and other functions.

LIBJNX_EXEC_EXITED

System Log Message	LIBJNX_EXEC_EXITED: Command stopped: pid <i>process-id</i> , signal= ' <i>exit-status</i> ' <i>core-dump-status</i> , command ' <i>command</i> '
Description	A JUNOS process created a child process to execute the indicated command for it. The child process stopped unexpectedly.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_EXEC_FAILED

System Log Message	LIBJNX_EXEC_FAILED: Child exec failed for command ' <i>command</i> ': <i>error-message</i>
Description	A JUNOS process called the exec() system call while creating a child process to execute the indicated command for it. The system call failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_EXEC_PIPE

System Log Message	LIBJNX_EXEC_PIPE: Unable to create pipes for command ' <i>command</i> ': <i>error-message</i>
Description	A JUNOS process created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_EXEC_SIGNALED

System Log Message	LIBJNX_EXEC_SIGNALED: Command received signal: pid <i>process-id</i> , signal <i>signal-name</i> core-dump-status, command ' <i>command</i> '
Description	A JUNOS process created a child process to execute the indicated command for it. The child process received the indicated signal and exited.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_EXEC_WEXIT

System Log Message	LIBJNX_EXEC_WEXIT: Command exited: pid <i>process-id</i> , status <i>exit-status</i> core-dump-status, command ' <i>command</i> '
Description	A JUNOS process created a child process to execute the indicated command for it. The child process exited abnormally with the indicated exit code.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_PRIV_LOWER_FAILED

System Log Message	LIBJNX_PRIV_LOWER_FAILED: Unable to lower privilege level: <i>error-message</i>
Description	A JUNOS process attempted to revert its effective user ID to the original user. The attempt failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_PRIV_RAISE_FAILED

System Log Message	LIBJNX_PRIV_RAISE_FAILED: Unable to raise privilege level: <i>error-message</i>
Description	A JUNOS process attempted to set its effective user ID to the root user. The attempt failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

LIBJNX_ROTATE_COMPRESS_EXEC_FAILED

System Log Message	LIBJNX_ROTATE_COMPRESS_EXEC_FAILED: <i>compress-path compress-prog -f compress-file: error-message</i>
Description	A JUNOS process could not compress an old log file.
Type	Error: An error occurred
Severity	info
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

Chapter 7

LIBSERVICED System Log Messages

This chapter describes messages generated by the Services Physical Interface Cards (PICs) process (serviced), which provides the user interface for management and configuration of J20 gateway GPRS support node control-plane (GGSN-C) PICs.

LIBSERVICED_CLIENT_CONNECTION

System Log Message	LIBSERVICED_CLIENT_CONNECTION: Client connection error: <i>reason</i>
Description	An attempt to establish a client connection failed.
Type	Error: An error occurred
Severity	error

LIBSERVICED_OUTBOUND_REQUEST

System Log Message	LIBSERVICED_OUTBOUND_REQUEST: Outbound request failed for command [<i>request-string</i>]: <i>reason</i>
Description	There was an error while attempting to execute a command on a remote client.
Type	Error: An error occurred
Severity	error

LIBSERVICED_SNMP_LOST_CONNECTION

System Log Message	LIBSERVICED_SNMP_LOST_CONNECTION: Connection closed while receiving from client <i>client-number</i>
Description	A client connection was abruptly closed by the remote client while reading a message.
Type	Error: An error occurred
Severity	error

LIBSERVICED_SOCKET_BIND

System Log Message LIBSERVICED_SOCKET_BIND:
library-function: unable to bind socket socket-descriptor: reason

Description An attempt to bind a server socket for receiving client requests failed.

Type Error: An error occurred

Severity error

LIBSERVICED_SOCKET_PRIVATIZE

System Log Message LIBSERVICED_SOCKET_PRIVATIZE:
Unable to attach socket *socket-descriptor* to management routing instance: *reason*

Description An attempt to attach a socket to the management routing instance for communication between the Routing Engine and GGSN-C PICs failed.

Type Error: An error occurred

Severity error

Chapter 8

MIB2D System Log Messages

This chapter describes messages generated by the Management Information Base II (MIB II) process (mib2d), which services requests for information gathered and reported by the Simple Network Management Protocol (SNMP).

MIB2D_ATM_ERROR

System Log Message	MIB2D_ATM_ERROR: <i>function-name: error-message</i>
Description	The MIB II process (mib2d) could not process ATM-related information.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_CONFIG_CHECK_FAILED

System Log Message	MIB2D_CONFIG_CHECK_FAILED: <i>function-name: configuration database has errors</i>
Description	The configuration checking phase of a 'commit' operation failed during processing of the configuration for the MIB II process (mib2d).
Type	Error: An error occurred
Severity	error
Cause	The configuration was invalid.
Action	Correct the invalid portion of the configuration as described in the error message on the console.

MIB2D_FILE_OPEN_FAILURE

System Log Message	MIB2D_FILE_OPEN_FAILURE: Unable to open file ' <i>filename</i> ': <i>error-message</i>
Description	The MIB II process (mib2d) could not open the indicated file.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_IFD_IFINDEX_FAILURE

System Log Message	MIB2D_IFD_IFINDEX_FAILURE: SNMP index assigned to <i>ifd-name</i> changed from <i>old-snmp-ifindex</i> to <i>new-snmp-ifindex</i>
Description	The SNMP ifIndex assigned to the indicated existing interface changed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_IFL_IFINDEX_FAILURE

System Log Message	MIB2D_IFL_IFINDEX_FAILURE: SNMP index assigned to <i>ifd-name.ifl-subunit</i> changed from <i>old-snmp-ifindex</i> to <i>new-snmp-ifindex</i>
Description	The SNMP ifIndex assigned to the indicated existing interface changed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_INIT_FAILURE

System Log Message	MIB2D_INIT_FAILURE: mib2d initialization failure: <i>error-message (extended-error)</i>
Description	The MIB II process (mib2d) failed to initialize.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_KVM_FAILURE

System Log Message	MIB2D_KVM_FAILURE: <i>function-name: kvm-error: error-message</i>
Description	A call to the indicated function in the kernel virtual memory library failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_RTSLIB_READ_FAILURE

System Log Message	MIB2D_RTSLIB_READ_FAILURE: <i>function-name: failed in operation-type object-type: index (error-message)</i>
Description	A call to the indicated function in the routing socket library failed during the indicated operation on the indicated object.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_RTSLIB_SEQ_MISMATCH

System Log Message	MIB2D_RTSLIB_SEQ_MISMATCH: <i>function-name: sequence mismatch (expected-value, received-value), resyncing</i>
Description	The indicated function in the routing socket library detected a sequence number mismatch. The MIB II process (mib2d) will resynchronize its data with the JUNOS kernel.
Type	Event: This message reports an event, not an error
Severity	info

MIB2D_SYSCTL_FAILURE

System Log Message	MIB2D_SYSCTL_FAILURE: <i>function-name: sysctl sysctl-error failed: error-message</i>
Description	A request to the JUNOS kernel for system data failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

MIB2D_TRAP_HEADER_FAILURE

System Log Message	MIB2D_TRAP_HEADER_FAILURE: <i>function-name: trap_request_header failed</i>
Description	The MIB II process (mib2d) could not allocate a trap header.
Type	Error: An error occurred
Severity	error
Cause	The Routing Engine is low on resources.
Action	Contact your technical support representative.

MIB2D_TRAP_SEND_FAILURE

System Log Message	MIB2D_TRAP_SEND_FAILURE: <i>function-name: trap_request_send; error-message</i>
Description	The MIB II process (mib2d) could not send a trap header.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

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Chapter 9

NASD System Log Messages

This chapter describes messages generated by the Network Access Server process (nasd), which authenticates peers at the interface level.

NASD_AUTHENTICATION_CREATE_FAILED

System Log Message	NASD_AUTHENTICATION_CREATE_FAILED: Unable to allocate authentication handle: <i>system-error</i>
Description	The Network Access Server process (nasd) could not allocate an authentication object.
Type	Error: An error occurred
Severity	error

NASD_CHAP_AUTHENTICATION_IN_PROGRESS

System Log Message	NASD_CHAP_AUTHENTICATION_IN_PROGRESS: <i>interface-name</i> : received <i>operation-name(message-identifier)</i> , authentication already in progress
Description	The Network Access Server process (nasd) received another CHAP Response from a peer while authenticating a previous CHAP Response sent by that peer. The peer is resending CHAP Responses faster than nasd can process them.
Type	Error: An error occurred
Severity	error

NASD_CHAP_GETHOSTNAME_FAILED

System Log Message	NASD_CHAP_GETHOSTNAME_FAILED: <i>interface-name</i> : unable to obtain hostname for outgoing CHAP message: <i>system-error</i>
Description	The Network Access Server process (nasd) could not obtain the hostname needed to fill in the 'Name' field in an outgoing CHAP packet.
Type	Error: An error occurred
Severity	error

NASD_CHAP_INVALID_CHAP_IDENTIFIER

System Log Message	NASD_CHAP_INVALID_CHAP_IDENTIFIER: <i>interface-name</i> : received <i>operation-name(message-identifier)</i> , expected CHAP ID: <i>expected-identifier</i>
Description	The identifier in a CHAP message received from a peer did not match the expected value.
Type	Error: An error occurred
Severity	info

NASD_CHAP_INVALID_OPCODE

System Log Message	NASD_CHAP_INVALID_OPCODE: <i>interface-name</i> : invalid opcode received <i>operation-name(operation-code)</i> , CHAP ID: <i>message-identifier</i>
Description	A CHAP message from a peer included the indicated operation code, which is invalid.
Type	Error: An error occurred
Severity	error

NASD_CHAP_LOCAL_NAME_UNAVAILABLE

System Log Message	NASD_CHAP_LOCAL_NAME_UNAVAILABLE: Unable to determine value for 'Name' in outgoing CHAP packet
Description	The Network Access Server process (nasd) could not determine the value needed to fill in the 'Name' field in an outgoing CHAP packet, because either the local name was not specified or nasd could not determine the hostname.
Type	Error: An error occurred
Severity	error

NASD_CHAP_MESSAGE_UNEXPECTED

System Log Message	NASD_CHAP_MESSAGE_UNEXPECTED: <i>interface-name</i> : received <i>operation-name(message-identifier)</i>
Description	The Network Access Server process (nasd) did not expect to receive a CHAP message with the indicated operation type.
Type	Error: An error occurred
Severity	info

NASD_CHAP_REPLAY_ATTACK_DETECTED

System Log Message	NASD_CHAP_REPLAY_ATTACK_DETECTED: <i>interface-name</i> : received <i>operation-name(message-identifier)</i> , this is identical to an outstanding challenge. Peer is trying to exhort response value.
Description	During an exchange of authentication messages, a peer responded to a challenge message from the Network Access Server process (nasd) by returning the same message. nasd did not respond to the peer, because doing so would provide the answer to the original challenge. The peer must provide the answer on its own for authentication to succeed.
Type	Error: An error occurred
Severity	error

NASD_CONFIG_GET_LAST_MODIFIED_FAILED

System Log Message	NASD_CONFIG_GET_LAST_MODIFIED_FAILED: Unable to determine last modified time of JUNOS configuration database: <i>reason</i> : <i>system-error</i>
Description	The Network Access Server process (nasd) could not determine when the JUNOS configuration database last changed.
Type	Error: An error occurred
Severity	error

NASD_CONFIG_READ_FAILED

System Log Message	NASD_CONFIG_READ_FAILED: Reason: <i>details</i>
Description	The Network Access Server process (nasd) could not read its configuration for the indicated reason.
Type	Error: An error occurred
Severity	error

NASD_DAEMONIZE_FAILED

System Log Message	NASD_DAEMONIZE_FAILED: Aborting, unable to run in the background as a daemon: <i>error</i>
Description	The Network Access Server process (nasd) could not create a version of itself to run in the background as a daemon.
Type	Error: An error occurred
Severity	emergency

NASD_DB_ALLOC_FAILURE

System Log Message	NASD_DB_ALLOC_FAILURE: Unable to allocate database object: <i>object-type</i> , <i>system-error</i>
Description	The Network Access Server process (nasd) could not allocate memory for the indicated object, which it needs to insert into its in-memory database.
Type	Error: An error occurred
Severity	error

NASD_DB_TABLE_CREATE_FAILURE

System Log Message	NASD_DB_TABLE_CREATE_FAILURE: patricia_root_init failed: <i>database-table</i> , <i>system-error</i>
Description	The Network Access Server process (nasd) could not create a container object in the database stored in its memory.
Type	Error: An error occurred
Severity	error

NASD_DUPLICATE

System Log Message	NASD_DUPLICATE: Another copy of this program is running
Description	An attempt to start the Network Access Server process (nasd) failed because an instance of the process is already running.
Type	Error: An error occurred
Severity	error

NASD_EVLIB_CREATE_FAILURE

System Log Message	NASD_EVLIB_CREATE_FAILURE: evCreate failed with: <i>error</i>
Description	The Network Access Server process (nasd) could not create a context used for handling all asynchronous events (such as timers and message availability).
Type	Error: An error occurred
Severity	emergency

NASD_EVLIB_EXIT_FAILURE

System Log Message	NASD_EVLIB_EXIT_FAILURE: evMainLoop return value: <i>return-value</i> , error: <i>error</i>
Description	The Network Access Server process (nasd) returned from an event loop, which it should never do.
Type	Error: An error occurred
Severity	error

NASD_LOCAL_CREATE_FAILED

System Log Message	NASD_LOCAL_CREATE_FAILED: Unable to allocate LOCAL module handle: <i>system-error</i>
Description	The Network Access Server Process (nasd) attempted to allocate a locally configured 'password' authentication module as part of its authentication sequence. The allocation failed.
Type	Error: An error occurred
Severity	error

NASD_NOT_ROOT

System Log Message	NASD_NOT_ROOT: Must be run as root
Description	The user who attempted to start the Network Access Server process (nasd) was not the root user.
Type	Error: An error occurred
Severity	error

NASD_PID_FILE_LOCK

System Log Message	NASD_PID_FILE_LOCK: Unable to lock PID file: <i>system-error</i>
Description	The Network Access Server process (nasd) attempted to lock the file that records its process ID (PID), which serves to prevent multiple instances of nasd from running simultaneously. The attempt failed.
Type	Error: An error occurred
Severity	error

NASD_PID_FILE_UPDATE

System Log Message	NASD_PID_FILE_UPDATE: Unable to update process PID file: <i>system-error</i>
Description	The Network Access Server process (nasd) attempted to update the file that records its process ID (PID), which serves to prevent multiple instances of nasd from running simultaneously. The attempt failed.
Type	Error: An error occurred
Severity	error

NASD_POST_CONFIGURE_EVENT_FAILED

System Log Message	NASD_POST_CONFIGURE_EVENT_FAILED: evDefer failed: <i>system-error</i>
Description	The Network Access Server process (nasd) made a system call to a post event to reread its configuration file. The call failed.
Type	Error: An error occurred
Severity	emergency

NASD_PPP_READ_FAILURE

System Log Message	NASD_PPP_READ_FAILURE: read() failed: <i>system-error</i>
Description	The Network Access Server process (nasd) could not read a PPP authentication message from the kernel socket.
Type	Error: An error occurred
Severity	error

NASD_PPP_SEND_FAILURE

System Log Message	NASD_PPP_SEND_FAILURE: Unable to send message: <i>system-error</i>
Description	The Network Access Server process (nasd) could not send a PPP authentication message to the kernel socket.
Type	Error: An error occurred
Severity	error

NASD_PPP_SEND_PARTIAL

System Log Message	NASD_PPP_SEND_PARTIAL: Unable to send all of message: <i>sent-number-bytes</i>
Description	The Network Access Server process (nasd) could not send all of a PPP authentication message to the kernel socket.
Type	Error: An error occurred
Severity	error

NASD_PPP_UNRECOGNIZED

System Log Message	NASD_PPP_UNRECOGNIZED: Unrecognized authentication protocol: <i>0xprotocol-identifier</i>
Description	The Network Access Server process (nasd) received a PPP authentication message with an unknown authentication protocol.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_ALLOCATE_PASSWORD_FAILED

System Log Message	NASD_RADIUS_ALLOCATE_PASSWORD_FAILED: <i>alloca(password-size)</i> failed when allocating password for RADIUS: <i>system-error</i>
Description	The Network Access Server process (nasd) could not allocate space for a temporary CHAP RADIUS password.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_CONFIG_FAILED

System Log Message	NASD_RADIUS_CONFIG_FAILED: <i>rad_config</i> failed: <i>radius-system-error</i>
Description	The Network Access Server process (nasd) could not read the configuration file that lists all RADIUS servers.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_CREATE_FAILED

System Log Message	NASD_RADIUS_CREATE_FAILED: Unable to allocate RADIUS module handle: <i>system-error</i>
Description	The Network Access Server process (nasd) attempted to allocate a RADIUS authentication module as part of its authentication sequence. The allocation failed.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_CREATE_REQUEST_FAILED

System Log Message	NASD_RADIUS_CREATE_REQUEST_FAILED: rad_create_request failed: <i>radius-system-error</i>
Description	The Network Access Server process (nasd) could not create the object it uses to send messages to the RADIUS server.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_GETHOSTNAME_FAILED

System Log Message	NASD_RADIUS_GETHOSTNAME_FAILED: Unable to obtain hostname for outgoing RADIUS message: <i>system-error</i>
Description	The Network Access Server process (nasd) could not obtain the hostname it needed to fill in the NAS_IDENTIFIER field in an outgoing RADIUS message.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_MESSAGE_UNEXPECTED

System Log Message	NASD_RADIUS_MESSAGE_UNEXPECTED: Unknown response from RADIUS server: <i>radius-message-code</i>
Description	The RADIUS authentication module received a message from the RADIUS server that it does not know how to handle.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_OPEN_FAILED

System Log Message	NASD_RADIUS_OPEN_FAILED: rad_auth_open failed: <i>system-error</i>
Description	The Network Access Server process (nasd) could not create a RADIUS object handle, which it uses to communicate with the RADIUS server.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_SELECT_FAILED

System Log Message	NASD_RADIUS_SELECT_FAILED: evSelectFD failed: <i>system-error</i>
Description	The Network Access Server process (nasd) uses UDP sockets to communicate with RADIUS servers. It could not add the file descriptor for this socket to the select() list.
Type	Error: An error occurred
Severity	error

NASD_RADIUS_SET_TIMER_FAILED

System Log Message	NASD_RADIUS_SET_TIMER_FAILED: evSetTimer failed: <i>system-error</i>
Description	The RADIUS authentication module uses a timer for retransmission of RADIUS messages. The timer could not be activated.
Type	Error: An error occurred
Severity	error

NASD_TRACE_FILE_OPEN_FAILED

System Log Message	NASD_TRACE_FILE_OPEN_FAILED: trace_file_open() failed: <i>system-error</i>
Description	The Network Access Server process (nasd) could not open the file in which it records log and trace messages.
Type	Error: An error occurred
Severity	error

NASD_USAGE

System Log Message NASD_USAGE:
Usage: nasd [-N] [-v] [-d debug-level]

Description The Network Access Server process (nasd) displayed the syntax statement for the 'nasd' command because the command was invoked incorrectly.

Type Event: This message reports an event, not an error

Severity error

Chapter 10

PWC System Log Messages

This chapter describes messages generated by the Process Watch Controller process (pwc), which monitors J20 gateway GPRS support node control-plane (GGSN-C) processes for failures.

PWC_EXIT

System Log Message	PWC_EXIT: Process <i>pwc-process-id</i> exiting with status <i>pwc-exit-status</i>
Description	The Process Watch Controller process (pwc) exited with the indicated exit status.
Type	Event: This message reports an event, not an error
Severity	info

PWC_HOLD_RELEASE

System Log Message	PWC_HOLD_RELEASE: Process <i>pwc-process-id</i> released child <i>child-process-id</i> from hold-down state
Description	The Process Watch Controller process (pwc) released the indicated child process from the hold-down state.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_INVALID_RUNS_ARGUMENT

System Log Message	PWC_INVALID_RUNS_ARGUMENT: <i>value</i> : allowed process runs must be ≥ 1 , not <i>argument</i>
Description	The number of allowed runs specified on the command line for the Process Watch Controller process (pwc) was invalid.
Type	Error: An error occurred
Severity	error

PWC_INVALID_TIMEOUT_ARGUMENT

System Log Message	PWC_INVALID_TIMEOUT_ARGUMENT: <i>value</i> : invalid 0 or negative timeout for <i>argument</i>
Description	The value specified for the timeout argument on the command line for the Process Watch Controller process (pwc) was too short or a negative number.
Type	Error: An error occurred
Severity	error

PWC_KILLED_BY_SIGNAL

System Log Message	PWC_KILLED_BY_SIGNAL: pwc process <i>pwc-process-id</i> received terminating signal
Description	The Process Watch Controller process (pwc) process exited because it received a terminating signal.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_KILL_EVENT

System Log Message	PWC_KILL_EVENT: pwc is sending signal <i>signal-name</i> to child <i>child-pid</i>
Description	The Process Watch Controller process (pwc) sent a termination signal to the child process it was created to monitor.
Type	Event: This message reports an event, not an error
Severity	info

PWC_KILL_FAILED

System Log Message	PWC_KILL_FAILED: Unable to kill process <i>child-pid</i> : <i>error</i> (<i>error-number</i>)
Description	The Process Watch Controller process (pwc) could not terminate the child process it was created to monitor.
Type	Error: An error occurred
Severity	error

PWC_KQUEUE_ERROR

System Log Message	PWC_KQUEUE_ERROR: kevent failed: <i>error-message</i>
Description	The Process Watch Controller process (pwc) could not receive an event from the kernel queue.
Type	Error: An error occurred
Severity	emergency

PWC_KQUEUE_INIT

System Log Message	PWC_KQUEUE_INIT: Unable to create kqueue: <i>error-message</i>
Description	The Process Watch Controller process (pwc) could not initialize the kernel queue.
Type	Error: An error occurred
Severity	emergency

PWC_KQUEUE_REGISTER_FILTER

System Log Message	PWC_KQUEUE_REGISTER_FILTER: Failed to register kqueue filter: <i>filter-name</i> for <i>purpose</i> : <i>error-message</i>
Description	The Process Watch Controller process (pwc) failed to register a kernel event queue filter event.
Type	Error: An error occurred
Severity	emergency

PWC_LOCKFILE_BAD_FORMAT

System Log Message	PWC_LOCKFILE_BAD_FORMAT: PID lock file has bad format: <i>lock-file-path</i>
Description	The Process Watch Controller process (pwc) could not parse the indicated locked PID file because its contents were invalid.
Type	Error: An error occurred
Severity	error

PWC_LOCKFILE_ERROR

System Log Message	PWC_LOCKFILE_ERROR: PID lock file had error: <i>lock-file-path: error (error-number)</i>
Description	The Process Watch Controller process (pwc) could not read the indicated locked PID file for a child process.
Type	Error: An error occurred
Severity	error

PWC_LOCKFILE_MISSING

System Log Message	PWC_LOCKFILE_MISSING: PID lock file not found: <i>lock-file-path</i>
Description	The Process Watch Controller process (pwc) could not find the indicated locked PID file for a child process.
Type	Event: This message reports an event, not an error
Severity	info

PWC_LOCKFILE_NOT_LOCKED

System Log Message	PWC_LOCKFILE_NOT_LOCKED: PID lock file not locked: <i>lock-file-path</i>
Description	The Process Watch Controller process (pwc) found that the indicated PID file for a child process was unlocked when it should be locked.
Type	Event: This message reports an event, not an error
Severity	info

PWC_NO_PROCESS

System Log Message	PWC_NO_PROCESS: No process specified
Description	The child process for the Process Watch Controller process (pwc) to monitor must be specified when the pwc process starts. No child process was specified.
Type	Error: An error occurred
Severity	error

PWC_PROCESS_EXIT

System Log Message	PWC_PROCESS_EXIT: pwc process <i>pwc-process-id</i> child <i>child-process-id</i> exited with status <i>child-exit-status</i>
Description	The child process of the Process Watch Controller process (pwc) exited with the specified exit status.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_FORCED_HOLD

System Log Message	PWC_PROCESS_FORCED_HOLD: Process <i>pwc-process-id</i> forcing hold down of child <i>child-process-id</i> until signal
Description	The Process Watch Controller process (pwc) received a signal directing it to hold down the indicated child process forcibly on exit due to a signal.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_HOLD

System Log Message	PWC_PROCESS_HOLD: Process <i>pwc-process-id</i> holding down child <i>child-process-id</i> until signal
Description	The Process Watch Controller process (pwc) held down the indicated child process after the child exited, preventing the child from restarting.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_HOLD_SKIPPED

System Log Message	PWC_PROCESS_HOLD_SKIPPED: Process <i>pwc-process-id</i> will not down child <i>child-process-id</i> because of fast-kill option
Description	The 'fast-kill' option was included on the command line for the Process Watch Controller process (pwc), so the pwc process will not hold down its child process when the child exits.
Type	Event: This message reports an event, not an error
Severity	info

PWC_PROCESS_OPEN

System Log Message	PWC_PROCESS_OPEN: Failed to create child process with pidpopen: <i>error (error-number)</i>
Description	The Process Watch Controller process (pwc) exited because it could not create a child process.
Type	Error: An error occurred
Severity	emergency

PWC_PROCESS_TIMED_HOLD

System Log Message	PWC_PROCESS_TIMED_HOLD: Process <i>pwc-process-id</i> holding down child <i>child-process-id</i> for <i>hold-time</i> seconds or until signal
Description	The Process Watch Controller process (pwc) held down the indicated exiting child process temporarily, preventing it from restarting.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_TIMEOUT

System Log Message	PWC_PROCESS_TIMEOUT: Child timed out while <i>process-state</i>
Description	The child process monitored by the Process Watch Controller process (pwc) timed out and will be terminated.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_SIGNAL_INIT

System Log Message	PWC_SIGNAL_INIT: signal(<i>signal-name</i>) failed: <i>error (error-number)</i>
Description	The Process Watch Controller process (pwc) failed to initialize the indicated signal handler.
Type	Error: An error occurred
Severity	emergency

PWC_SOCKET_CONNECT

System Log Message	PWC_SOCKET_CONNECT: Unable to connect socket to <i>destination: error</i>
Description	The Process Watch Controller process (pwc) could not connect to a Routing Engine process.
Type	Error: An error occurred
Severity	error

PWC_SOCKET_CREATE

System Log Message	PWC_SOCKET_CREATE: Failed to create socket: <i>error</i>
Description	The Process Watch Controller process (pwc) could not create a socket for communication with a Routing Engine process.
Type	Error: An error occurred
Severity	error

PWC_SOCKET_OPTION

System Log Message	PWC_SOCKET_OPTION: Unable to set socket option <i>socket-option: error</i>
Description	The Process Watch Controller process (pwc) could not set the indicated option on a socket for communication with a Routing Engine process, so socket initialization failed.
Type	Error: An error occurred
Severity	error

PWC_STDOUT_WRITE

System Log Message	PWC_STDOUT_WRITE: Write to stdout failed: <i>error (error-number)</i>
Description	The Process Watch Controller process (pwc) could not write to standard output but continued to run.
Type	Error: An error occurred
Severity	error

PWC_SYSTEM_CALL

System Log Message PWC_SYSTEM_CALL:
function-call: error (error-number)

Description The indicated system call failed with the indicated error.

Type Error: An error occurred

Severity error

PWC_UNKNOWN_KILL_OPTION

System Log Message PWC_UNKNOWN_KILL_OPTION:
Unknown kill option [*invalid-option*]

Description The indicated kill option included on the command line for the Process Watch Controller process (pwc) was invalid.

Type Error: An error occurred

Severity error

Chapter 11

RMOPD System Log Messages

This chapter describes messages generated by the Simple Network Management Protocol (SNMP) remote operations process (rmopd), which services SNMP requests for execution of ping and traceroute operations.

RMOPD_ADDRESS_MULTICAST_INVALID

System Log Message	RMOPD_ADDRESS_MULTICAST_INVALID: Multicast address is not allowed
Description	The SNMP client requesting a remote operation can specify the addresses of the source and target hosts for the operation. A request failed because the client specified a multicast address for either or both the source and target hosts.
Type	Error: An error occurred
Severity	error

RMOPD_ADDRESS_SOURCE_INVALID

System Log Message	RMOPD_ADDRESS_SOURCE_INVALID: Source address invalid: <i>reason</i>
Description	The SNMP client requesting a remote operation can specify the address to use as the source host for the operation, along with the corresponding address type (such as IPv4). Either the specified address was invalid because it did not match the specified address type, or the address could not be resolved.
Type	Error: An error occurred
Severity	notice

RMOPD_ADDRESS_STRING_FAILURE

System Log Message	RMOPD_ADDRESS_STRING_FAILURE: Unable to convert numeric address to string: <i>system-error</i>
Description	The remote SNMP operations process (rmopd) could not convert a numeric host address to its corresponding hostname text string.
Type	Error: An error occurred
Severity	error

RMOPD_ADDRESS_TARGET_INVALID

System Log Message	RMOPD_ADDRESS_TARGET_INVALID: rmop_util_set_address status message: <i>reason</i>
Description	The SNMP client requesting a remote operation must specify the address of the target host, along with the corresponding address type (such as IPv4). Either the specified address was invalid because it did not match the specified address type, or the address could not be resolved.
Type	Error: An error occurred
Severity	error

RMOPD_DUPLICATE

System Log Message	RMOPD_DUPLICATE: Another copy of this program is running
Description	The remote SNMP operations process (rmopd) could not start as requested because another instance of rmopd was already running. Only one instance can run at a time.
Type	Error: An error occurred
Severity	error

RMOPD_ICMP_ADDRESS_TYPE_UNSUPPORTED

System Log Message	RMOPD_ICMP_ADDRESS_TYPE_UNSUPPORTED: Only IPv4 source address is supported
Description	The SNMP client requesting a remote operation can specify the address type (such as IPv4) of the source and target hosts for the operation. The client specified an address type that is not supported.
Type	Error: An error occurred
Severity	error

RMOPD_IFINDEX_NO_INFO

System Log Message	RMOPD_IFINDEX_NO_INFO: No information for <i>interface-index</i> , message: <i>reason</i>
Description	The SNMP client requesting a remote operation can specify the interface to use as the source host address, identifying it by either its numerical index or its name. The SNMP remote operations process (rmopd) could not find any information about the interface with the indicated index.
Type	Error: An error occurred
Severity	error

RMOPD_IFINDEX_NOT_ACTIVE

System Log Message	RMOPD_IFINDEX_NOT_ACTIVE: ifindex: <i>interface-index</i>
Description	The SNMP client requesting a remote operation can specify the interface to use as the source host address, identifying it by either its numerical index or its name. The indicated index was invalid because it represents an interface that is not active.
Type	Error: An error occurred
Severity	error

RMOPD_IFNAME_NO_INFO

System Log Message	RMOPD_IFNAME_NO_INFO: No information for <i>interface-name</i> , message: <i>reason</i>
Description	The SNMP client requesting a remote operation can specify the interface to use as the source host address, identifying it by either its numerical index or its name. The SNMP remote operations process (rmopd) could not find any information about the interface with the indicated name.
Type	Error: An error occurred
Severity	error

RMOPD_IFNAME_NOT_ACTIVE

System Log Message	RMOPD_IFNAME_NOT_ACTIVE: ifname: <i>interface-name</i>
Description	The SNMP client requesting a remote operation can specify the interface to use as the source host address, identifying it by either its numerical index or its name. The indicated name was invalid because it represents an interface that is not active.
Type	Error: An error occurred
Severity	error

RMOPD_NOT_ROOT

System Log Message	RMOPD_NOT_ROOT: Must be run as root
Description	The user who attempted to start the SNMP remote operations process (rmopd) was not the root user.
Type	Error: An error occurred
Severity	error

RMOPD_ROUTING_INSTANCE_NO_INFO

System Log Message	RMOPD_ROUTING_INSTANCE_NO_INFO: No information for routing instance <i>routing-instance-name: system-error</i>
Description	The indicated routing instance does not exist, so the SNMP remote operations process (rmopd) could not retrieve information about it.
Type	Error: An error occurred
Severity	error

RMOPD_TRACEROUTE_ERROR

System Log Message	RMOPD_TRACEROUTE_ERROR: Message: <i>error-message</i>
Description	The traceroute application reported the indicated error message to the SNMP remote operations process (rmopd).
Type	Error: An error occurred
Severity	notice

RMOPD_USAGE

System Log Message	RMOPD_USAGE: Usage: rmopd [-N] [-v] [-d debug-level]
Description	The SNMP remote operations process (rmopd) displayed its usage statement after a user included invalid arguments on the 'rmopd' command line.
Type	Error: An error occurred
Severity	error

Chapter 12

RPD System Log Messages

This chapter describes messages generated by the routing protocol process (rpd), which controls the routing protocols that run on the router.

RPD_ABORT

System Log Message	RPD_ABORT: abort <i>executable-name</i> [<i>process-id</i>] version <i>version</i> built by <i>builder</i> on <i>build-date</i> : <i>error-message</i>
Description	The routing protocol process (rpd) terminated because of an internal error.
Type	Event: This message reports an event, not an error
Severity	error
Action	Examine the messages that immediately follow this message in the system log for information about possible causes.
Cause	An internal software failure occurred.

RPD_ACTIVE_TERMINATE

System Log Message	RPD_ACTIVE_TERMINATE: Exiting with active tasks: <i>task-names</i>
Description	After receiving multiple termination requests, the routing protocol process (rpd) exited without performing the indicated cleanup tasks.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_ASSERT

System Log Message	RPD_ASSERT: Assertion failed <i>executable-name</i> [<i>process-id</i>]: file " <i>source-file</i> ", line <i>source-line</i> : " <i>test</i> "
Description	The source code for the routing protocol process (rpd) includes internal self-consistency checks. rpd terminated because a check failed, creating a diagnostic core dump for analysis by technical support personnel and noting the number of the line in the source file where the check failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

RPD_ASSERT_SOFT

System Log Message	RPD_ASSERT_SOFT: Soft assertion failed <i>executable-name</i> [<i>process-id</i>]: file " <i>source-file</i> ", line <i>source-line</i> : " <i>test</i> ", daemon continued running
Description	The source code for the routing protocol process (rpd) includes internal self-consistency checks. A check failed but rpd continued running. It created a diagnostic core dump for analysis by technical support personnel and noted the number of the line in the source file where the check failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Examine the messages that immediately follow this message in the system log for information about possible causes. Contact a technical support representative, and be ready to provide the list of messages and the diagnostic core dump, if requested.

RPD_EXIT

System Log Message	RPD_EXIT: Exit <i>executable-name</i> [<i>process-id</i>] version <i>version</i> built by <i>builder</i> on <i>build-date</i>
Description	The routing protocol process (rpd) exited, either in response to a user request or because of a system error.
Type	Event: This message reports an event, not an error
Severity	notice
Cause	A system resource was unavailable, rpd did not understand an error, or a user terminated the process.
Action	Examine the messages that immediately follow this message in the system log for information about possible causes.

RPD_IFL_INDEXCOLLISION

System Log Message	RPD_IFL_INDEXCOLLISION: Logical interface collision -- same name, different index (new <i>new-interface new-index</i> old <i>old-interface old-index</i>)
Description	The routing protocol process (rpd) received a message from the kernel in which the numerical index associated with the indicated interface name differed from the index-to-name mapping maintained by rpd.
Type	Event: This message reports an event, not an error
Severity	error
Cause	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

RPD_IFL_NAMECOLLISION

System Log Message	RPD_IFL_NAMECOLLISION: Logical interface collision -- different name, same index (new <i>new-interface new-index</i> , old <i>old-interface old-index</i>)
Description	The routing protocol process (rpd) received a message from the kernel in which the name associated with the indicated numerical interface index differed from the name-to-index mapping maintained by rpd.
Type	Event: This message reports an event, not an error
Severity	error
Cause	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

RPD_ISIS_ADIDOWN

System Log Message	RPD_ISIS_ADIDOWN: IS-IS lost <i>Lisis-level</i> adjacency to <i>neighbor-sysids</i> on <i>interface-name</i> , reason: <i>reason</i>
Description	An IS-IS adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.
Type	Event: This message reports an event, not an error
Severity	notice
Cause	The communication path to the neighboring router was disrupted, a protocol error occurred, or the neighboring router was powered down.

RPD_ISIS_ADJUP

System Log Message	RPD_ISIS_ADJUP: IS-IS new <i>Lisis-level</i> adjacency to <i>neighbor-sysids</i> on <i>interface</i>
Description	An IS-IS adjacency was established with the indicated neighboring router. The local router can now exchange information with it.
Type	Event: This message reports an event, not an error
Severity	info

RPD_ISIS_ADJUPNOIP

System Log Message	RPD_ISIS_ADJUPNOIP: IS-IS new <i>Lisis-level</i> adjacency to <i>neighbor-system-ids</i> on <i>interface</i> without an address
Description	An IS-IS adjacency was established with the indicated neighboring router, which is not configured for IS-IS for IP.
Type	Event: This message reports an event, not an error
Severity	notice
Cause	The neighboring router is misconfigured because it is enabled for IS-IS but not for exchange of IP route information.
Action	Configure the neighboring router for IS-IS with IP, or remove it from the IS-IS mesh.

RPD_ISIS_LSPCKSUM

System Log Message	RPD_ISIS_LSPCKSUM: IS-IS <i>Lisis-level</i> LSP checksum error, interface <i>interface</i> , LSP id <i>lsp-idl</i> , sequence <i>lsp-sequence</i> , checksum <i>lsp-checksum</i> , lifetime <i>pdu-lifetime</i>
Description	The indicated IS-IS informational link-state PDU (LSP) failed an internal checksum validity test, implying that it was corrupted.
Type	Error: An error occurred
Severity	warning
Cause	The packet was corrupted in transit between the neighboring IS-IS router and this router, or memory on one of the routers was corrupted.
Action	None, unless a large number of these messages appear in the system log file. The corrupted LSP is purged from the network and sent again by the originator.

RPD_ISIS_OVERLOAD

System Log Message	RPD_ISIS_OVERLOAD: IS-IS database overload
Description	The IS-IS link-state database is full and no additional memory can be allocated for it.
Type	Error: An error occurred
Severity	alert
Cause	No additional memory is available for storing IS-IS link-state information. Either system resources are exhausted or a software error occurred (such as a memory leak in the routing protocol process [rpd]). In the former case, IS-IS might be carrying too much information, or the router configuration includes too many features that use large amounts of system memory.
Action	Perform one or more of the following actions: (1) Check for unusually high memory usage by the IS-IS task or rpd, (2) Unconfigure features that use large amounts of memory, (3) Add more memory to the Routing Engine, (4) Carry fewer IS-IS routes.

RPD_KRT_AFUNSUPRT

System Log Message	RPD_KRT_AFUNSUPRT: <i>task</i> : received <i>message-type</i> message with unsupported address family <i>address-family</i>
Description	The routing protocol process (rpd) received a message from the kernel that referred to the indicated address family, which the rpd process does not support.
Type	Event: This message reports an event, not an error
Severity	error

RPD_KRT_CCC_IFL_MODIFY

System Log Message RPD_KRT_CCC_IFL_MODIFY:
errno, error

Description The routing protocol process (rpd) attempted to modify the CCC-related state for a logical interface, but the request failed.

Type Event: This message reports an event, not an error

Severity info

Cause The kernel possibly lacked the resources to fulfill the request. rpd will recover.

RPD_KRT_DELETED_RTT

System Log Message RPD_KRT_DELETED_RTT:
*task: received deleted routing table from the kernel for family *address-family* table ID *table-id**

Description The routing protocol process (rpd) received a message from the kernel that referred to a routing table that no longer exists.

Type Event: This message reports an event, not an error

Severity error

RPD_KRT_IFA_GENERATION

System Log Message RPD_KRT_IFA_GENERATION:
*ifa generation mismatch -- rpd *rpd-generation* kernel *kernel-generation**

Description The routing protocol process (rpd) received a message from the kernel in which the interface address associated with the indicated numerical index differed from the address-to-index mapping maintained by rpd.

Type Event: This message reports an event, not an error

Severity notice

Cause rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

RPD_KRT_IFD_GENERATION

System Log Message	RPD_KRT_IFD_GENERATION: ifd <i>ifd-index</i> generation mismatch -- rpd <i>rpd-generation</i> kernel <i>kernel-generation</i>
Description	The routing protocol process (rpd) received a message from the kernel in which the physical interface associated with the indicated numerical index differed from the interface-to-index mapping maintained by rpd.
Type	Event: This message reports an event, not an error
Severity	notice
Cause	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

RPD_KRT_IFDCHANGE

System Log Message	RPD_KRT_IFDCHANGE: task CHANGE for ifd <i>ifd-index address/prefix-length</i> failed, error " <i>error</i> ".
Description	The routing protocol process (rpd) sent a request to the kernel to change the state of the indicated interface. The request failed.
Type	Event: This message reports an event, not an error
Severity	error
Cause	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

RPD_KRT_IFDEST_GET

System Log Message	RPD_KRT_IFDEST_GET: task IFDEST GETNEXT <i>message-detail</i> for ifd <i>ifd-index.ifd-subunit</i> failed, error " <i>error</i> ".
Description	The routing protocol process (rpd) requested state information about the indicated interface from the kernel. The request failed.
Type	Event: This message reports an event, not an error
Severity	error
Cause	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

RPD_KRT_IFDGET

System Log Message	RPD_KRT_IFDGET: <i>task GET index for ifd interface failed, error "error".</i>
Description	The routing protocol process (rpd) requested state information about the indicated interface from the kernel. The request failed.
Type	Event: This message reports an event, not an error
Severity	error
Cause	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

RPD_KRT_IFL_GENERATION

System Log Message	RPD_KRT_IFL_GENERATION: <i>ifl ifl-index generation mismatch -- rpd rpd-ifname rpd-generation kernel kernel-ifdname.kernel-iflsubunit kernel-generation</i>
Description	The routing protocol process (rpd) received a message from the kernel in which the logical interface associated with the indicated numerical index differed from the interface-to-index mapping maintained by rpd.
Type	Event: This message reports an event, not an error
Severity	notice
Cause	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

RPD_KRT_KERNEL_BAD_ROUTE

System Log Message	RPD_KRT_KERNEL_BAD_ROUTE: <i>task-name: lost ifl-or-ifa unknown-index for route route-prefix</i>
Description	As it restarted, the routing protocol process (rpd) could not process a route obtained from the kernel because the route contained references to objects that are no longer valid.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	rpd did not recognize some elements in the route message, such as the logical interface index or an address family.
Action	rpd can probably solve the problem, but check the entry for the indicated route prefix in the forwarding table. If the prefix's route and forwarding table entry are inconsistent, contact a technical support representative for instructions.

RPD_KRT_NEXTHOP_OVERFLOW

System Log Message	RPD_KRT_NEXTHOP_OVERFLOW: <i>type prefix</i> : too many next hops (<i>number-of-nexthops</i>).The maximum allowed is <i>maximum</i> -- truncating.
Description	The number of next hops for the indicated route exceeded the indicated limit for a single route add operation.
Type	Error: An error occurred
Severity	error
Cause	An indexed next hop can use multiple forwarding next hops per forwarding class. It is possible to have more next hops per route than can be carried in a single message. This requires that next hops be reused across forwarding classes, which is not recommended.
Action	Eliminate common next hops across forwarding classes, thereby reducing the total number of next hops which must be specified.

RPD_KRT_NOIFD

System Log Message	RPD_KRT_NOIFD: No device <i>ifd-index</i> for interface <i>ifl-index</i> (<i>interface</i>)
Description	The routing protocol process (rpd) received a message from the kernel that associated the indicated physical interface device and logical interface. rpd has no record of the device.
Type	Event: This message reports an event, not an error
Severity	error
Cause	rpd possibly discarded some interface messages from the kernel without processing them because it received more messages than it could handle. rpd will recover.

RPD_KRT_UNKNOWN_RTT

System Log Message	RPD_KRT_UNKNOWN_RTT: <i>task</i> : received routing table message for unknown table ID <i>table-id</i>
Description	The routing protocol process (rpd) received a message from the kernel that referred to the routing table with the indicated ID. rpd has no record of the table.
Type	Event: This message reports an event, not an error
Severity	error

RPD_KRT_VERSION

System Log Message	RPD_KRT_VERSION: Routing socket version mismatch (kernel <i>kernel-version</i> != rpd <i>rpd-version</i>) -- kernel upgrade required
Description	The routing protocol process (rpd) discovered that the kernel does not support the version of routing sockets it requires.
Type	Error: An error occurred
Severity	error
Cause	The kernel version is older than the rpd version.
Action	Upgrade the kernel package.

RPD_KRT_VERSIONNONE

System Log Message	RPD_KRT_VERSIONNONE: Routing socket message type <i>message-type</i> 's version is not supported by kernel, expected <i>rpd-version</i> -- kernel upgrade required
Description	The routing protocol process (rpd) discovered that the kernel does not support the routing socket message types that it requires.
Type	Error: An error occurred
Severity	error
Cause	The kernel version is older than the rpd version.
Action	Upgrade the kernel package.

RPD_KRT_VERSIONOLD

System Log Message	RPD_KRT_VERSIONOLD: Routing socket message type <i>message-type</i> 's version is older than expected (<i>kernel-version</i> < <i>rpd-version</i>) -- consider upgrading the kernel
Description	The routing protocol process (rpd) discovered that the kernel uses an older version of routing socket message types than it does.
Type	Error: An error occurred
Severity	error
Cause	The kernel version is older than the rpd version.
Action	Upgrade the kernel package.

RPD_LDP_INTF_BLOCKED

System Log Message	RPD_LDP_INTF_BLOCKED: Duplicate session ID detected from <i>neighbor-addressi</i> , interface <i>interface</i> , blocking interface
Description	LDP operations were blocked on the indicated interface because the same session ID was detected across multiple interfaces but per-interface transport addresses are in use.
Type	Event: This message reports an event, not an error
Severity	warning

RPD_LDP_INTF_UNBLOCKED

System Log Message	RPD_LDP_INTF_UNBLOCKED: LDP interface <i>interface</i> is now unblocked
Description	The indicated interface returned to the normal operational state. It was previously blocked because the routing protocol process (rpd) noticed that a duplicate session ID was being used.
Type	Event: This message reports an event, not an error
Severity	warning

RPD_LDP_NBRDOWN

System Log Message	RPD_LDP_NBRDOWN: LDP neighbor <i>neighbor-addressi</i> (<i>interface</i>) is down
Description	An LDP adjacency was terminated because the indicated neighbor stopped communicating. If the adjacency was the only one with this neighbor, the routing protocol process (rpd) terminated the associated LDP session.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_LDP_NBRUP

System Log Message	RPD_LDP_NBRUP: LDP neighbor <i>neighbor-addressi</i> (<i>interface</i>) is up
Description	An LDP adjacency with the indicated neighbor became active. The routing protocol process (rpd) established an LDP session with the neighbor if one did not already exist.
Type	Event: This message reports an event, not an error
Severity	info

RPD_LDP_SESSIONDOWN

System Log Message	RPD_LDP_SESSIONDOWN: LDP session <i>neighbor-address</i> is down, reason: <i>reason</i>
Description	The routing protocol process (rpd) terminated an LDP session with the indicated neighbor and deleted all labels exchanged during the session.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_LDP_SESSIONUP

System Log Message	RPD_LDP_SESSIONUP: LDP session <i>neighbor-address</i> is up
Description	The routing protocol process (rpd) established an LDP session with the indicated neighbor. The routers began exchanging labels.
Type	Event: This message reports an event, not an error
Severity	info

RPD_LOCK_FLOCKED

System Log Message	RPD_LOCK_FLOCKED: Unable to obtain a lock on <i>lock-file</i> , is another copy of rpd running?
Description	The routing protocol process (rpd) could not obtain the mutual exclusion lock that prevents more than one instance of rpd from running simultaneously. The system terminated the indicated process.
Type	Error: An error occurred
Severity	error
Cause	Another rpd process is running.
Action	Use the 'show system process' command to verify that another rpd is running.

RPD_LOCK_LOCKED

System Log Message	RPD_LOCK_LOCKED: Unable to obtain a lock on <i>lock-file</i> , <i>program-name</i> [<i>process-id</i>] is still running
Description	The routing protocol process (rpd) could not obtain the mutual exclusion lock that prevents more than one instance of rpd from running simultaneously. The system terminated this instance of the routing process.
Type	Error: An error occurred
Severity	error
Cause	Another rpd is running.
Action	Use the 'show system process' command to verify that another rpd is running.

RPD_MSDP_PEER_DOWN

System Log Message	RPD_MSDP_PEER_DOWN: MSDP peer <i>peer</i> peer-group <i>peer-group</i> out of Established state
Description	The indicated MSDP peer left the Established state. The routing protocol process (rpd) deleted all active sources learned from the peer and will not longer send 'Source Active' messages to it.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_MSDP_PEER_UP

System Log Message	RPD_MSDP_PEER_UP: MSDP peer <i>peer</i> peer-group <i>peer-group</i> into Established state
Description	The indicated MSDP peer entered the Established state.
Type	Event: This message reports an event, not an error
Severity	info

RPD_OS_MEMHIGH

System Log Message	RPD_OS_MEMHIGH: Using <i>kilobytes-used</i> KB of memory, <i>percentage-used</i> percent of available
Description	The routing protocol process (rpd) is using the indicated amount and percentage of Routing Engine memory, which is considered excessive.
Type	Event: This message reports an event, not an error
Severity	error
Cause	Either rpd is leaking memory or the use of system resources is excessive, perhaps because routing filters are misconfigured or the configured network topology is very complex.
Action	Increase the amount of RAM in the Routing Engine.

RPD_OSPF_NBRDOWN

System Log Message	RPD_OSPF_NBRDOWN: OSPF neighbor <i>neighbor (interface)</i> state changed from <i>old-state</i> to <i>new-state</i> due to <i>cause</i>
Description	An OSPF adjacency with the indicated neighboring router was terminated. The local router no longer exchanges routing information with, or directs traffic to, the neighboring router.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_OSPF_NBRUP

System Log Message	RPD_OSPF_NBRUP: OSPF neighbor <i>neighbor (interface)</i> state changed from <i>old-state</i> to <i>new-state</i> due to <i>cause</i>
Description	An OSPF adjacency was established with the indicated neighboring router. The local router can now exchange information with it.
Type	Event: This message reports an event, not an error
Severity	info

RPD_PIM_NBRDOWN

System Log Message	RPD_PIM_NBRDOWN: PIM neighbor <i>neighbor</i> timeout interface <i>interface</i>
Description	The indicated PIM neighbor stopped sending keepalive messages. The routing protocol process (rpd) deleted prune state information sent by this neighbor and stopped sending join messages to the neighbor.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_PIM_NBRUP

System Log Message	RPD_PIM_NBRUP: PIM new neighbor <i>neighbor</i> interface <i>interface</i>
Description	The routing protocol process (rpd) discovered the indicated new PIM neighbor on the indicated interface.
Type	Event: This message reports an event, not an error
Severity	info

RPD_RDISC_CKSUM

System Log Message	RPD_RDISC_CKSUM: Bad checksum for router solicitation from <i>source-address</i> to <i>destination-address</i>
Description	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated address because the checksum in the message's ICMP header was invalid.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	The solicitation message was incorrectly generated or damaged in transit.
Action	Examine the host that generated the solicitation message.

RPD_RDISC_NOMULTI

System Log Message	RPD_RDISC_NOMULTI: Ignoring interface <i>interface-address</i> on <i>interface-name</i> -- multicast not available
Description	The indicated interface was configured for router discovery, but does not support IP multicast operations as required. The routing protocol process (rpd) did not enable router discovery on the interface.
Type	Error: An error occurred
Severity	warning
Action	Do not configure router discovery on the interface.

RPD_RDISC_NORECVIF

System Log Message	RPD_RDISC_NORECVIF: Unable to locate interface for router solicitation from <i>source-address</i> to <i>destination-address</i>
Description	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router because the router's IP address does not share the IP prefix of the local router. The local router is not a candidate for the indicated router because they are not on the same network.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	Although the indicated router seems to be locally attached, no interfaces on the local router are configured to handle its IP address. Either the indicated router is configured with the wrong IP address, or the local router is not correctly configured for the network that the indicated router is using.
Action	Ignore this message if it indicates the desired configuration, or reconfigure one or both routers to share a common network.

RPD_RDISC_SOLICITADDR

System Log Message	RPD_RDISC_SOLICITADDR: Expected multicast (<i>expected-address</i>) for router solicitation from <i>source-address</i> to <i>destination-address</i>
Description	A router discovery solicitation message received from the indicated address was not sent to the expected multicast address for all routers.
Type	Event: This message reports an event, not an error
Severity	warning
Action	Examine the configuration of the router that generated the router discovery solicitation message.

RPD_RDISC_SOLICITICMP

System Log Message	RPD_RDISC_SOLICITICMP: Nonzero ICMP code (<i>icmp-code</i>) for router solicitation from <i>source-address</i> to <i>destination-address</i>
Description	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router because the ICMP code in the message header was nonzero.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	The solicitation message was incorrectly generated.
Action	Examine the host that generated the solicitation message.

RPD_RDISC_SOLICITLEN

System Log Message	RPD_RDISC_SOLICITLEN: Insufficient length (<i>length</i>) for router solicitation from <i>source-address</i> to <i>destination-address</i>
Description	The routing protocol process (rpd) ignored a router discovery solicitation message from the indicated router, because the indicated message length is too short.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	The solicitation message was incorrectly generated.
Action	Examine the host that generated the solicitation message.

RPD_RIP_AUTH

System Log Message	RPD_RIP_AUTH: Update with invalid authentication from <i>sender-ip-address</i> (<i>interface</i>)
Description	The routing protocol process (rpd) ignored a RIP update because authentication of the update failed.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_RIP_JOIN_BROADCAST

System Log Message	RPD_RIP_JOIN_BROADCAST: Unable to get broadcast address on <i>interface</i> ; using the all-ones address
Description	RIP cannot run on the indicated interface because the routing protocol process (rpd) could not obtain the broadcast address on the interface as required for running RIP version 1 or version 2 in compatibility mode.
Type	Error: An error occurred
Severity	error

RPD_RIP_JOIN_MULTICAST

System Log Message	RPD_RIP_JOIN_MULTICAST: Unable to join multicast group on <i>interface</i> : <i>error-message</i>
Description	RIP cannot run on the indicated interface, because the routing protocol process (rpd) could not join the RIP multicast group as required for RIP version 2 multicast updates.
Type	Error: An error occurred
Severity	error

RPD_RT_IFUP

System Log Message	RPD_RT_IFUP: UP route for interface <i>interface</i> index <i>ifl-index</i> <i>address/prefix-length</i>
Description	The interface route for the indicated interface and prefix changed state from down to up, becoming available for routing purposes.
Type	Event: This message reports an event, not an error
Severity	warning

RPD_SCHED_CALLBACK_LONGRUNTIME

System Log Message	RPD_SCHED_CALLBACK_LONGRUNTIME: <i>function</i> : excessive runtime during <i>action</i> of <i>module</i> . Ran for <i>time</i>
Description	The indicated submodule of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

RPD_SCHED_CUMULATIVE_LONGRUNTIME

System Log Message	RPD_SCHED_CUMULATIVE_LONGRUNTIME: <i>function</i> : excessive runtime after <i>action</i> of <i>module</i> . Total of <i>time</i> in <i>calls</i> callbacks
Description	Several submodules of the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

RPD_SCHED_TASK_LONGRUNTIME

System Log Message	RPD_SCHED_TASK_LONGRUNTIME: <i>function ran for total-time (user-time user, system-time system) doing action</i>
Description	A task callback within the routing protocol process (rpd) ran uninterrupted for the indicated period of time, which is considered excessive.
Type	Event: This message reports an event, not an error
Severity	warning
Cause	The duration was noted because task accounting is enabled. The implementation of this function is possibly inefficient.

RPD_SIGNAL_TERMINATE

System Log Message	RPD_SIGNAL_TERMINATE: <i>signal-name</i> termination signal received
Description	In response to the indicated termination request, the routing protocol process (rpd) terminated adjacencies with neighbors and shut down.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_START

System Log Message	RPD_START: Start <i>executable-name</i> [<i>process-id</i>] version <i>version</i> built <i>build-date</i>
Description	The routing protocol process (rpd) started.
Type	Event: This message reports an event, not an error
Severity	info

RPD_SYSTEM

System Log Message	RPD_SYSTEM: <i>detail: error-message</i>
Description	A system call made by the routing protocol process (rpd) failed.
Type	Event: This message reports an event, not an error
Severity	error
Cause	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

RPD_TASK_BEGIN

System Log Message	RPD_TASK_BEGIN: Commencing routing updates, version <i>rpd-version</i> , built <i>build-date</i> by <i>builder</i>
Description	The routing protocol process (rpd) started.
Type	Event: This message reports an event, not an error
Severity	notice

RPD_TASK_CHILDKILLED

System Log Message	RPD_TASK_CHILDKILLED: <i>task</i> terminated by SIG <i>signal-name</i> <i>core-status</i>
Description	While a child process of the routing protocol process (rpd) was performing the indicated operation, it terminated in response to the indicated signal.
Type	Event: This message reports an event, not an error
Severity	error

RPD_TASK_CHILDSTOPPED

System Log Message	RPD_TASK_CHILDSTOPPED: <i>task</i> stopped by SIG <i>signal-name</i>
Description	While a child process of the routing protocol process (rpd) was performing the indicated operation, it stopped in response to the indicated signal.
Type	Event: This message reports an event, not an error
Severity	error

RPD_TASK_FORK

System Log Message	RPD_TASK_FORK: Unable to fork <i>task</i> : <i>error-message</i>
Description	The routing protocol process failed to create the indicated child process.
Type	Error: An error occurred
Severity	error

RPD_TASK_GETWD

System Log Message	RPD_TASK_GETWD: getwd: <i>error-message</i>
Description	The getwd() system call made by the routing protocol process (rpd) failed.
Type	Event: This message reports an event, not an error
Severity	error
Cause	The kernel possibly lacked the resources to fulfill the request. rpd will recover.

RPD_TASK_NOREINIT

System Log Message	RPD_TASK_NOREINIT: Reinitialization not possible
Description	The routing protocol process (rpd) failed to reinitialize as requested, because it was running in a state that did not allow reconfiguration.
Type	Event: This message reports an event, not an error
Severity	error

RPD_TASK_PIDCLOSED

System Log Message	RPD_TASK_PIDCLOSED: Unable to close and remove <i>pid-file</i> : <i>error-message</i>
Description	The routing protocol process (rpd) tried to close and remove the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The attempt failed.
Type	Error: An error occurred
Severity	error

RPD_TASK_PIDFLOCK

System Log Message	RPD_TASK_PIDFLOCK: flock(<i>pid-file</i> , LOCK_EX): <i>error-message</i>
Description	The routing protocol process (rpd) issued the flock() system call on the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The system call failed.
Type	Error: An error occurred
Severity	error

RPD_TASK_PIDWRITE

System Log Message	RPD_TASK_PIDWRITE: Unable to write <i>pid-file</i> : <i>error-message</i>
Description	The routing protocol process (rpd) tried to write to the file that records its process ID (PID), which serves to prevent multiple instances of rpd from running simultaneously. The attempt failed.
Type	Error: An error occurred
Severity	error

RPD_TASK_REINIT

System Log Message	RPD_TASK_REINIT: Reinitializing
Description	The routing protocol process (rpd) reinitialized.
Type	Event: This message reports an event, not an error
Severity	info

RPD_TASK_SIGNALIGNORE

System Log Message	RPD_TASK_SIGNALIGNORE: sigaction(SIG <i>signal-name</i>): <i>error-message</i>
Description	The routing protocol process (rpd) informed the kernel that it wished to ignore the indicated signal, but the kernel failed to process the request.
Type	Error: An error occurred
Severity	error

Chapter 13

SERVICED System Log Messages

This chapter describes messages generated by the Services Physical Interface Cards (PICs) process (serviced), which provides the user interface for management and configuration of J20 gateway GPRS support node control-plane (GGSN-C) PICs.

SERVICED_CLIENT_CONNECT

System Log Message	SERVICED_CLIENT_CONNECT: <i>function: connect attempt to interface failed with error: reason (error-number)</i>
Description	To execute commands, the system makes connections to interface clients. The connection attempt failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_CLIENT_DISCONNECTED

System Log Message	SERVICED_CLIENT_DISCONNECTED: <i>function: unexpected termination of connection to interface</i>
Description	The remote client closed the connection or stopped responding.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_CLIENT_ERROR

System Log Message	SERVICED_CLIENT_ERROR: <i>function: client interface connection failure: reason (error-number)</i>
Description	An I/O error caused the termination of a connection with an interface client.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_COMMAND_FAILED

System Log Message	SERVICED_COMMAND_FAILED: <i>function: remote command execution failed with error: reason (error-number)</i>
Description	An error caused a command being executed on an interface client to be cancelled.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_COMMIT_FAILED

System Log Message	SERVICED_COMMIT_FAILED: <i>client failed to commit configuration with error: reason</i>
Description	The system relays configuration data to service PICs that provide the application services. An attempt to commit a configuration failed for one or more applications.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_CONFIGURATION_FAILED

System Log Message	SERVICED_CONFIGURATION_FAILED: <i>function: configuration process failed with error: reason</i>
Description	A new configuration failed to process correctly and failed.
Type	Error: An error occurred
Severity	error
Cause	The cause varies depending on the daemon that failed. Check syslog output for additional details.
Action	Contact your technical support representative.

SERVICED_CONFIG_ERROR

System Log Message	SERVICED_CONFIG_ERROR: Reason: <i>reason</i>
Description	The Services PICs process (serviced) found an error while reading or applying the information in the configuration database.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_CONFIG_FILE

System Log Message	SERVICED_CONFIG_FILE: <i>function: library-call failed to read path with error: reason (error-number)</i>
Description	An I/O error occurred when the Services PICs process (serviced) attempted to read exported configuration information.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_CONNECTION_ERROR

System Log Message	SERVICED_CONNECTION_ERROR: <i>function: connection closed</i>
Description	The remote client closed the connection when data was expected.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_DUPLICATE

System Log Message	SERVICED_DUPLICATE: Another copy of this program is running
Description	As a part of normal startup, the Services PICs process (serviced) locks a file and writes its process ID (PID) into it. It could not lock the file, indicating that another copy of the process was already running.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_EVENT_FAILED

System Log Message	SERVICED_EVENT_FAILED: <i>function: event function library-call failed with error: reason (error-number)</i>
Description	The Services PICs process (serviced) could not continue processing a task because a call to a function in the event library failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_INIT_FAILED

System Log Message	SERVICED_INIT_FAILED: <i>function: initialization failed with error: reason</i>
Description	One of the steps in the initialization sequence for the Services PICs process (serviced) failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	just-reported

SERVICED_MALLOC_FAILURE

System Log Message	SERVICED_MALLOC_FAILURE: <i>function: failed to allocate [object] object [bytes bytes]: reason (error-number)</i>
Description	The Services PICs process (serviced) could not allocate the number of bytes needed to hold the indicated object.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_NETWORK_FAILURE

System Log Message	SERVICED_NETWORK_FAILURE: <i>function: library-call had error: reason (error-number)</i>
Description	An attempt to use the indicated network library call failed with an error.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_NOT_ROOT

System Log Message SERVICED_NOT_ROOT:
Must be run as root

Description The user who attempted to start the Services PICs process (serviced) was not the root user.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SERVICED_PID_FILE_LOCK

System Log Message SERVICED_PID_FILE_LOCK:
Unable to lock PID file: *reason (error-number)*

Description As a part of normal startup, the Services PICs process (serviced) locks a file and writes its process ID (PID) into it. It could not lock the file.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SERVICED_PID_FILE_UPDATE

System Log Message SERVICED_PID_FILE_UPDATE:
Unable to update process PID file: *reason (error-number)*

Description As a part of normal startup, the Services PICs process (serviced) locks a file and writes its process ID (PID) into it. It could not write to the file.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SERVICED_RTsock_SEQUENCE

System Log Message	SERVICED_RTsock_SEQUENCE: <i>function</i> : routing socket sequence error, expected <i>expected-idl</i> , received <i>received-idl</i>
Description	The Services PICs process (serviced) encountered a sequence error while receiving messages from the routing socket library.
Type	Event: This message reports an event, not an error
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_SIGNAL_HANDLER

System Log Message	SERVICED_SIGNAL_HANDLER: <i>function</i> : set up of signal <i>name</i> handler failed with error: <i>reason (error-number)</i>
Description	As a part of normal functioning, the Services PICs process (serviced) attempted to initialize a signal-handling function. Part of the initialization failed with an error.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_SOCKET_CREATE

System Log Message	SERVICED_SOCKET_CREATE: <i>function</i> : socket create failed with error: <i>reason (error-number)</i>
Description	An attempt by the Services PICs process (serviced) to create a new socket for communication with an interface client failed with an error.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_SOCKET_IO

System Log Message	SERVICED_SOCKET_IO: <i>function: socket function library-call failed with error: reason (error-number)</i>
Description	A call to a socket library function indicated that an error occurred while attempting to perform I/O.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_SOCKET_OPTION

System Log Message	SERVICED_SOCKET_OPTION: <i>function: unable to set socket option socket-option: reason</i>
Description	An attempt to set an option on a socket failed.
Type	Error: An error occurred
Severity	error

SERVICED_STDLIB_FAILURE

System Log Message	SERVICED_STDLIB_FAILURE: <i>function: library-call had error: reason (error-number)</i>
Description	The value returned by a call to a library function indicated that an error occurred.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SERVICED_USAGE

System Log Message	SERVICED_USAGE: Incorrect usage: <i>usage</i>
Description	The Services PICs process (serviced) displayed its usage statement.
Type	Error: An error occurred
Severity	error
Cause	The serviced process was not invoked with correct command-line arguments.
Action	Check the usage and invoke the serviced process with the correct command-line arguments.

SERVICED_WORK_INCONSISTENCY

System Log Message	SERVICED_WORK_INCONSISTENCY: <i>function: object</i> has unexpected value <i>work-sequence-number</i> (expected <i>expected-sequence-number</i>)
Description	The expected and actual work sequence numbers did not match.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

Chapter 14

SNMP System Log Messages

This chapter describes messages generated by two kinds of processes:

- Processes that perform Simple Network Management Protocol (SNMP) operations, such as the Management Information Base II (MIB II) process (mib2d) and the SNMP agent process (snmpd). Those processes also generate messages with prefixes that match their names, as described in “MIB2D System Log Messages” on page 41 and “SNMPD System Log Messages” on page 105.
- Processes that are instrumented to generate system log messages when they send SNMP traps. The SNMP remote operations process (rmopd) is one such process. It also generates messages with the RMOPD_ prefix, which are described in “RMOPD System Log Messages” on page 65.

SNMP_GET_ERROR1

System Log Message	SNMP_GET_ERROR1: <i>function-name operation-type</i> failed for <i>object-name</i> : index1 <i>index1</i> (<i>error-message</i>)
Description	An SNMP Get or GetNext request failed for the indicated object, which has the indicated index.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMP_GET_ERROR2

System Log Message	SNMP_GET_ERROR2: <i>function-name operation-type failed for object-name: index1 index1 index2 index2 (error-message)</i>
Description	An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMP_GET_ERROR3

System Log Message	SNMP_GET_ERROR3: <i>function-name operation-type failed for object-name: index1 index1 index2 index2 index3 index3 (error-message)</i>
Description	An SNMP Get or GetNext request failed for the indicated object, which has the indicated indexes.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMP_RTSLIB_FAILURE

System Log Message	SNMP_RTSLIB_FAILURE: <i>function-name: rtplib-error: error-message</i>
Description	A call to the indicated function in the routing socket library failed with the indicated error.
Type	Error: An error occurred
Severity	emergency
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMP_TRAP_LINK_DOWN

System Log Message	SNMP_TRAP_LINK_DOWN: ifIndex <i>if-index</i> , ifAdminStatus <i>admin-status</i> , ifOperStatus <i>oper-status</i> , ifName <i>interface-name</i>
Description	The SNMP agent process (snmpd) generated a linkDown trap because the indicated interface changed state to 'down'.
Type	Event: This message reports an event, not an error
Severity	warning

SNMP_TRAP_LINK_UP

System Log Message	SNMP_TRAP_LINK_UP: ifIndex <i>if-index</i> , ifAdminStatus <i>admin-status</i> , ifOperStatus <i>oper-status</i> , ifName <i>interface-name</i>
Description	The SNMP agent process (snmpd) generated a linkUp trap because the indicated interface changed state to 'up'.
Type	Event: This message reports an event, not an error
Severity	info

SNMP_TRAP_PING_PROBE_FAILED

System Log Message	SNMP_TRAP_PING_PROBE_FAILED: pingCtlOwnerIndex = <i>test-owner</i> ; pingCtlTestName = <i>test-name</i>
Description	The SNMP remote operations process (rmopd) generated a pingProbeFailed trap because the number of successive probe failures exceeded the pingCtlTrapProbeFailureFilter threshold.
Type	Event: This message reports an event, not an error
Severity	info

SNMP_TRAP_PING_TEST_COMPLETED

System Log Message	SNMP_TRAP_PING_TEST_COMPLETED: pingCtlOwnerIndex = <i>test-owner</i> ; pingCtlTestName = <i>test-name</i>
Description	The SNMP remote operations process (rmopd) generated a pingTestCompleted trap because all probes were sent and the number of failed probes was less than the pingCtlTrapTestFailureFilter threshold.
Type	Event: This message reports an event, not an error
Severity	info

SNMP_TRAP_PING_TEST_FAILED

System Log Message	SNMP_TRAP_PING_TEST_FAILED: pingCtlOwnerIndex = <i>test-owner</i> ; pingCtlTestName = <i>test-name</i>
Description	The SNMP remote operations process (rmopd) generated a pingTestFailed trap because all probes were sent but the number of failed probes equaled or exceeded the pingCtlTrapTestFailureFilter threshold.
Type	Event: This message reports an event, not an error
Severity	info

SNMP_TRAP_TRACE_ROUTE_PATH_CHANGE

System Log Message	SNMP_TRAP_TRACE_ROUTE_PATH_CHANGE: traceRouteCtlOwnerIndex = <i>test-owner</i> ; traceRouteCtlTestName = <i>test-name</i>
Description	The SNMP remote operations process (rmopd) generated a traceRoutePathChange trap because two probes with the same time-to-live (TTL) value returned with different IP addresses.
Type	Event: This message reports an event, not an error
Severity	info

SNMP_TRAP_TRACE_ROUTE_TEST_COMPLETED

System Log Message	SNMP_TRAP_TRACE_ROUTE_TEST_COMPLETED: traceRouteCtlOwnerIndex = <i>test-owner</i> ; traceRouteCtlTestName = <i>test-name</i>
Description	The SNMP remote operations process (rmopd) generated a tracerouteTestCompleted trap because the test completed and the full path to the target was determined.
Type	Event: This message reports an event, not an error
Severity	info

SNMP_TRAP_TRACE_ROUTE_TEST_FAILED

System Log Message	SNMP_TRAP_TRACE_ROUTE_TEST_FAILED: traceRouteCtlOwnerIndex = <i>test-owner</i> ; traceRouteCtlTestName = <i>test-name</i>
Description	The SNMP remote operations process (rmopd) generated a tracerouteTestFailed trap because the test completed and the full path to the target was not determined.
Type	Event: This message reports an event, not an error
Severity	info

Chapter 15

SNMPD System Log Messages

This chapter describes messages generated by the Simple Network Management Protocol (SNMP) agent process (snmpd), which responds to SNMP requests. As necessary, it passes the requests to subagent processes running on its machine and forwards the traps they generate to the SNMP manager.

SNMPD_ACCESS_GROUP_ERROR

System Log Message	SNMPD_ACCESS_GROUP_ERROR: <i>function-name</i> : error in <i>operation-type</i> access group ' <i>group-name</i> ' context ' <i>context-name</i> ' model ' <i>model</i> ' level ' <i>level</i> '
Description	The indicated operation (creation, installation, or deletion) failed during configuration of the indicated access group.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_AUTH_FAILURE

System Log Message	SNMPD_AUTH_FAILURE: <i>function-name</i> : <i>auth-message</i> from <i>source-address</i> to <i>destination-address</i> (<i>index1</i>)
Description	The indicated function failed because the authorization check failed for the interface, SNMP community, or user making the request.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_AUTH_PRIVILEGES_EXCEEDED

System Log Message	SNMPD_AUTH_PRIVILEGES_EXCEEDED: <i>function-name: source-address:</i> request exceeded community privileges
Description	The indicated function failed because the SNMP community making the access request did not have the required privileges.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_AUTH_WRONG_PDU_TYPE

System Log Message	SNMPD_AUTH_WRONG_PDU_TYPE: <i>function-name: source-address:</i> unauthorized SNMP PDU type: <i>pdu-type</i>
Description	The indicated function failed because the indicated type of protocol data unit (PDU) is not supported.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_CONFIG_ERROR

System Log Message	SNMPD_CONFIG_ERROR: Configuration database has errors
Description	The SNMP agent process (snmpd) detected an error in the SNMP configuration database.
Type	Error: An error occurred
Severity	error

SNMPD_CONTEXT_ERROR

System Log Message	SNMPD_CONTEXT_ERROR: <i>function-name: error in operation-type context context-name</i>
Description	The indicated operation (addition or deletion) failed during configuration of the indicated SNMP context.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_ENGINE_FILE_FAILURE

System Log Message	SNMPD_ENGINE_FILE_FAILURE: <i>function-name: operation: operation-type filename: error-message</i>
Description	The SNMP agent process (snmpd) could not perform the indicated operation on the indicated SNMP engine data file.
Type	Error: An error occurred
Severity	critical
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_ENGINE_PROCESS_ERROR

System Log Message	SNMPD_ENGINE_PROCESS_ERROR: <i>function-name: from-path: undecodable/unmatched subagent response</i>
Description	The SNMP agent process (snmpd) could not process a message from a subagent.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_FILE_FAILURE

System Log Message SNMPD_FILE_FAILURE:
function-name: fopen filename: error-message

Description The SNMP agent process (snmpd) could not access the indicated file.

Type Error: An error occurred

Severity emergency

Cause An internal software failure occurred.

Action Contact your technical support representative.

SNMPD_GROUP_ERROR

System Log Message SNMPD_GROUP_ERROR:
function-name: error in operation-type group: 'group-name' user 'username' model 'model-name'

Description The indicated operation (creation, installation, or deletion) failed during configuration of the indicated group.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SNMPD_INIT_FAILED

System Log Message SNMPD_INIT_FAILED:
 snmpd initialization failure: *error-message*

Description Initialization of the SNMP agent process (snmpd) failed.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SNMPD_LIBJUNIPER_FAILURE

System Log Message	SNMPD_LIBJUNIPER_FAILURE: <i>function-name: system_default_inaddr: error-message</i>
Description	The indicated function from the Juniper Networks SNMP library failed and returned the indicated error to the SNMP agent process (snmpd).
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_LOOPBACK_ADDR_ERROR

System Log Message	SNMPD_LOOPBACK_ADDR_ERROR: <i>function-name: error error-message on sending ifaddr routing socket</i>
Description	The SNMP agent process (snmpd) received the indicated error message when it requested a system loopback address.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_MEMORY_FREED

System Log Message	SNMPD_MEMORY_FREED: <i>function-name: called for freed - already freed</i>
Description	The SNMP agent process (snmpd) could not free memory used for communication with a subagent.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_RADIX_FAILURE

System Log Message	SNMPD_RADIX_FAILURE: <i>function-name: radix_add failed: error-message</i>
Description	The SNMP agent process (snmpd) uses radix trees to store valid client prefixes, which are used to determine authorization for requests from users and communities. It could not create a new entry in a radix tree.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_RECEIVE_FAILURE

System Log Message	SNMPD_RECEIVE_FAILURE: <i>function-name: receive receive-type failure: error-message</i>
Description	The SNMP agent process (snmpd) could not receive a protocol data unit (PDU) from UDP or a message from a subagent.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_RMON_COOKIE

System Log Message	SNMPD_RMON_COOKIE: <i>function-name: Null cookie</i>
Description	An invalid data pointer was returned when the RMON asynchronous completion handler performed an RMON alarm operation.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_RMON_EVENTLOG

System Log Message	SNMPD_RMON_EVENTLOG: <i>function-name: log-message</i>
Description	The indicated RMON event completed.
Type	Event: This message reports an event, not an error
Severity	warning

SNMPD_RMON_IOERROR

System Log Message	SNMPD_RMON_IOERROR: <i>function-name: Received io error, entry (alarm-index), error code (error-code)</i>
Description	An RMON alarm MIB request being processed by the SNMP agent process (snmpd) failed with an I/O error.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_RMON_MIBERROR

System Log Message	SNMPD_RMON_MIBERROR: <i>function-name: internal Get request error: description, alarm alarm-id, error error-type, variable: variable-name (oid)</i>
Description	A Get request for a monitored object instance failed during initialization of the indicated RMON alarm.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_RMONFILE_FAILURE

System Log Message SNMPD_RMONFILE_FAILURE:
function-name: operation: operation-type filename: error-message

Description The indicated operation failed on the indicated RMON data file.

Type Error: An error occurred

Severity critical

Cause An internal software failure occurred.

Action Contact your technical support representative.

SNMPD_RTSLIB_ASYNC_EVENT

System Log Message SNMPD_RTSLIB_ASYNC_EVENT:
function-name: sequence mismatch (expected-value, received-value), resyncing

Description A notification from the kernel to the SNMP agent process (snmpd) was lost.

Type Event: This message reports an event, not an error

Severity notice

SNMPD_SEND_FAILURE

System Log Message SNMPD_SEND_FAILURE:
function-name: send send-type (index1) failure: error-message

Description The SNMP agent process (snmpd) could not send a protocol data unit (PDU) to UDP or a message to a subagent.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SNMPD_SOCKET_FAILURE

System Log Message	SNMPD_SOCKET_FAILURE: <i>function-name: socket failure: socket-error (error-message)</i>
Description	The SNMP agent process (snmpd) uses sockets for communication with subagents. It could not create or remove a socket.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_SUBAGENT_NO_BUFFERS

System Log Message	SNMPD_SUBAGENT_NO_BUFFERS: No buffers available for subagent (<i>subagent-name</i>)
Description	The SNMP agent process (snmpd) uses buffers for communication with subagents. No buffers were available for communication with the indicated subagent.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_SUBAGENT_SEND_FAILED

System Log Message	SNMPD_SUBAGENT_SEND_FAILED: Send to subagent failed (<i>subagent-name</i>): <i>error-message</i>
Description	The SNMP agent process (snmpd) could not send a message to the indicated subagent.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_SYSLIB_FAILURE

System Log Message	SNMPD_SYSLIB_FAILURE: <i>function-name: system function 'system-function' failed: error-message</i>
Description	The indicated function from the SNMP system library failed and returned the indicated error to the SNMP agent process (snmpd).
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_COLD_START

System Log Message	SNMPD_TRAP_COLD_START: <i>function-name: SNMP trap: cold start</i>
Description	The SNMP agent process (snmpd) generated a cold-start trap when the entire Routing Engine (including snmpd) initialized.
Type	Event: This message reports an event, not an error
Severity	critical

SNMPD_TRAP_GEN_FAILURE

System Log Message	SNMPD_TRAP_GEN_FAILURE: <i>function-name: SNMP trap error: trap-message (error-message)</i>
Description	The SNMP agent process (snmpd) could not generate a trap.
Type	Error: An error occurred
Severity	emergency
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_GEN_FAILURE2

System Log Message	SNMPD_TRAP_GEN_FAILURE2: <i>function-name:</i> SNMP trap error: <i>trap-message</i> index1 <i>index1</i> index2 <i>index2</i>
Description	The SNMP agent process (snmpd) could not generate a trap.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_INVALID_DATA

System Log Message	SNMPD_TRAP_INVALID_DATA: <i>function-name:</i> SNMP trap error: invalid <i>field-name</i> (<i>value-received</i>) received
Description	The SNMP agent process (snmpd) received a trap message from a subagent that contained an invalid variable binding (varbind) type.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_NOT_ENOUGH_VARBINDS

System Log Message	SNMPD_TRAP_NOT_ENOUGH_VARBINDS: <i>function-name:</i> SNMP trap error: not enough varbinds for valid header (<i>varbinds-received</i> < <i>varbinds-expected</i>)
Description	The SNMP agent process (snmpd) received a trap message from a subagent that contained fewer variable bindings (varbinds) than expected.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_TYPE_ERROR

System Log Message	SNMPD_TRAP_TYPE_ERROR: <i>function-name</i> : unknown trap type requested (<i>trap-type</i>)
Description	The SNMP agent process (snmpd) received an SNMP Version 1 trap message that included an unknown trap type.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_VARBIND_TYPE_ERROR

System Log Message	SNMPD_TRAP_VARBIND_TYPE_ERROR: <i>function-name</i> : SNMP trap error: expecting <i>varbind-number</i> varbind to be VT_NUMBER (<i>expected-value</i>)
Description	The SNMP agent process (snmpd) received a trap message from a subagent that contained an unexpected variable binding (varbind) type.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_VERSION_ERROR

System Log Message	SNMPD_TRAP_VERSION_ERROR: <i>function-name</i> : SNMP trap error: invalid version signature (<i>0xreceived-signature</i> != <i>0xexpected-signature</i>)
Description	The SNMP agent process (snmpd) received a trap message from a subagent that contained an invalid version signature in its header.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_TRAP_WARM_START

System Log Message	SNMPD_TRAP_WARM_START: <i>function-name</i> : SNMP trap: warm start
Description	The SNMP agent process (snmpd) generated a warm-start trap when it initialized (other Routing Engine processes were already active).
Type	Event: This message reports an event, not an error
Severity	error

SNMPD_USER_ERROR

System Log Message	SNMPD_USER_ERROR: <i>function-name</i> : error in user-error user ' <i>username</i> ' auth ' <i>auth-type</i> ' priv ' <i>priv-type</i> '
Description	The indicated operation (creation, installation, or deletion) failed during configuration of the indicated user.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_VIEW_DELETE

System Log Message	SNMPD_VIEW_DELETE: <i>function-name</i> : deleting view <i>view-name</i> oid <i>oid-name</i> not found
Description	The SNMP agent process (snmpd) could not service a request to delete the MIB view with the indicated name and object identifier (OID), because it could not find the view.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

SNMPD_VIEW_INSTALL_DEFAULT

System Log Message SNMPD_VIEW_INSTALL_DEFAULT:
function-name: error installing default view-mode view view-name

Description The SNMP agent process (snmpd) could not install one of the default views.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

SNMPD_VIEW_OID_PARSE

System Log Message SNMPD_VIEW_OID_PARSE:
function-name: oid parsing failed for view view-name oid oid-name

Description The SNMP agent process (snmpd) could not parse the object identifier (OID) configured for the indicated MIB view.

Type Error: An error occurred

Severity error

Cause An internal software failure occurred.

Action Contact your technical support representative.

Chapter 16

TFTPD System Log Messages

This chapter describes messages generated by the Trivial File Transfer Protocol (TFTP) process (tnp.tftpd), which services requests from hardware components for the configuration files they use during initialization.

TFTPD_AF_ERR

System Log Message	TFTPD_AF_ERR: Unexpected address family <i>address-family</i>
Description	As each hardware component on the router initializes, it requests its configuration file from the TFTP process (tnp.tftpd). The tnp.tftpd process exited because an incoming packet had the indicated, unexpected value in its address family (sockaddr) field.
Type	Error: An error occurred
Severity	error

TFTPD_BIND_ERR

System Log Message	TFTPD_BIND_ERR: bind: <i>error-message</i>
Description	Binding of a socket to an address failed due to a system error.
Type	Error: An error occurred
Severity	error

TFTPD_CONNECT_ERR

System Log Message	TFTPD_CONNECT_ERR: connect: <i>error-message</i>
Description	Connection of a socket to an address failed due to a system error.
Type	Error: An error occurred
Severity	error

TFTPD_CONNECT_INFO

System Log Message	TFTPD_CONNECT_INFO: TFTP <i>operation-type</i> from address <i>address</i> port <i>port</i> file <i>filename</i>
Description	As each hardware component on the router initializes, it requests its configuration file from the TFTP process (tnp.tftpd). The process established a connection with the indicated characteristics: kind of operation (read or write), address and port connected to, and name of file transferred.
Type	Event: This message reports an event, not an error
Severity	info

TFTPD_CREATE_ERR

System Log Message	TFTPD_CREATE_ERR: check_space <i>error-message</i>
Description	The TFTP process (tnp.tftpd) could not create a core dump file.
Type	Error: An error occurred
Severity	error
Cause	There is probably not enough free space in the file system where tnp.tftpd tried to create the file.

TFTPD_FIO_ERR

System Log Message	TFTPD_FIO_ERR: ioctl(FIONBIO): <i>error-message</i>
Description	The TFTP process (tnp.tftpd) could not set the standard input to be nonblocking.
Type	Error: An error occurred
Severity	error

TFTPD_FORK_ERR

System Log Message	TFTPD_FORK_ERR: fork: <i>error-message</i>
Description	As each hardware component on the router initializes, it requests its configuration file from the TFTP process (tnp.tftpd). To service multiple clients simultaneously, tnp.tftpd calls the fork() system call to make a copy of itself for each request. The system call returned the indicated error.
Type	Error: An error occurred
Severity	error

TFTPD_NAK_ERR

System Log Message	TFTPD_NAK_ERR: nak error <i>error-code</i> , <i>error-string</i>
Description	The TFTP process (tnp.tftpd) sent a negative acknowledgment to a client because of the indicated error condition.
Type	Error: An error occurred
Severity	warning

TFTPD_OPEN_ERR

System Log Message	TFTPD_OPEN_ERR: Unable to open file ' <i>filename</i> ', error: <i>error-message</i>
Description	The TFTP process (tnp.tftpd) could not open the indicated file because of the indicated error.
Type	Error: An error occurred
Severity	warning

TFTPD_RECV_ERR

System Log Message	TFTPD_RECV_ERR: recv: <i>error-message</i>
Description	The TFTP process (tnp.tftpd) could not receive data from the network.
Type	Error: An error occurred
Severity	error

TFTPD_RECVCOMPLETE_INFO

System Log Message	TFTPD_RECVCOMPLETE_INFO: Received <i>blocks</i> blocks of <i>blocksize</i> size for file ' <i>filename</i> '
Description	The TFTP process (tnp.tftpd) received the last portion of a transmitted file. This message records the number of blocks received, the block size used, and the name of the file to which the data was written.
Type	Event: This message reports an event, not an error
Severity	info

TFTPD_RECVFROM_ERR

System Log Message TFTPD_RECVFROM_ERR:
recvfrom: *error-message*

Description The TFTP process (tnp.tftpd) issued the recvfrom() system call when attempting to receive data from the network. The system call failed.

Type Error: An error occurred

Severity error

TFTPD_SEND_ERR

System Log Message TFTPD_SEND_ERR:
send: *error-message*

Description The TFTP process (tnp.tftpd) could not send data.

Type Error: An error occurred

Severity error

TFTPD_SENDCOMPLETE_INFO

System Log Message TFTPD_SENDCOMPLETE_INFO:
Sent *blocks* blocks of *blocksize* and 1 block of *lastblock* for file '*filename*'

Description The TFTP process (tnp.tftpd) successfully sent a file. This message records the number of blocks sent, the block size used, the size of the last block, and the name of the source file.

Type Event: This message reports an event, not an error

Severity info

TFTPD_SOCKET_ERR

System Log Message TFTPD_SOCKET_ERR:
socket: *error-message*

Description The TFTP process (tnp.tftpd) could not open a socket for data transmission or reception.

Type Error: An error occurred

Severity error

TFTPD_STATFS_ERR

System Log Message	TFTPD_STATFS_ERR: statfs <i>filename</i> , error: <i>error-message</i>
Description	The TFTPD process (tnp.tftpd) issued the statfs() system call to obtain the status of the file system into which it needed to write a crash file. The system call failed with the indicated error.
Type	Error: An error occurred
Severity	error

Chapter 17

UI System Log Messages

This chapter describes messages generated by the JUNOS command-line interface (CLI) and management process (mgd), which together form the JUNOS user interface that accepts and processes input from users and client applications.

UI_AUTH_EVENT

System Log Message	UI_AUTH_EVENT: Authenticated user ' <i>username</i> ' at level ' <i>authentication-level</i> '
Description	The management process (mgd) authenticated the indicated user.
Type	Event: This message reports an event, not an error
Severity	unknown

UI_AUTH_INVALID_CHALLENGE

System Log Message	UI_AUTH_INVALID_CHALLENGE: Received invalid authentication challenge for user ' <i>username</i> ': <i>response</i>
Description	When a user logs onto the router and attempts to authenticate, the CLI and management process (mgd) use a challenge-and-response system to limit the exposure of sensitive information such as passwords and keys. The format of the challenge generated by mgd was incorrect.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_BOOTTIME_FAILED

System Log Message	UI_BOOTTIME_FAILED: Unable to fetch boot time: <i>error-message</i>
Description	The management process (mgd) could not retrieve the system boot time from the kernel.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CFG_AUDIT_NEW

System Log Message	UI_CFG_AUDIT_NEW: User ' <i>username</i> ' action: <i>path unknown</i>
Description	The indicated user created a new configuration object by copying or renaming an existing object as indicated.
Type	Event: This message reports an event, not an error
Severity	info

UI_CFG_AUDIT_OTHER

System Log Message	UI_CFG_AUDIT_OTHER: User ' <i>username</i> ' action: <i>path quotevaluequote</i>
Description	The indicated user deleted, activated, or deactivated a configuration object, as indicated. The JUNOS configuration log facility logged the change.
Type	Event: This message reports an event, not an error
Severity	info

UI_CFG_AUDIT_SET

System Log Message	UI_CFG_AUDIT_SET: User ' <i>username</i> ' action: <i>path quotedataquote</i> -> " <i>value</i> "
Description	The indicated user set a value for a configuration object, as indicated.
Type	Event: This message reports an event, not an error
Severity	info

UI_CFG_AUDIT_SET_SECRET

System Log Message	UI_CFG_AUDIT_SET_SECRET: User ' <i>username</i> ' action: <i>path-name</i>
Description	The indicated user set a value for a configuration object, as indicated. For security reasons, the actual value (which might be an authentication key or password, for example) is not recorded.
Type	Event: This message reports an event, not an error
Severity	info

UI_CHILD_ARGS_EXCEEDED

System Log Message	UI_CHILD_ARGS_EXCEEDED: Too many arguments for child process ' <i>command</i> '
Description	The management process (mgd) invokes some commands on behalf of users. It supplied more arguments than the command's syntax statement specifies.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_CHANGE_USER

System Log Message	UI_CHILD_CHANGE_USER: Unable to switch to local user: <i>local-user</i>
Description	The management process (mgd) invokes some commands on behalf of users. Its attempt to adopt the UID of the indicated user failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_EXEC

System Log Message	UI_CHILD_EXEC: Child exec failed for command ' <i>command</i> ': <i>error-message</i>
Description	The management process (mgd) invoked the exec() system call while creating a child processes to execute the indicated command on its behalf. The system call failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_EXITED

System Log Message	UI_CHILD_EXITED: Child exited: pid <i>process-id</i> , status <i>exit-status</i> core-dump-status, command ' <i>command</i> '
Description	The management process (mgd) created a child process to execute the indicated command for it. The child process exited unexpectedly with the indicated status code.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_FOPEN

System Log Message	UI_CHILD_FOPEN: Unable to append to log ' <i>filename</i> ': <i>error-message</i>
Description	The management process (mgd) attempted to save the output from a command in the indicated log file, but could not open the file.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_PIPE_FAILED

System Log Message	UI_CHILD_PIPE_FAILED: Unable to create pipe for command ' <i>command</i> ': <i>error-message</i>
Description	The management process (mgd) created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child process failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_STOPPED

System Log Message	UI_CHILD_STOPPED: Child stopped: pid <i>process-id</i> , signal= <i>signal-name</i> core-dump, command= ' <i>command</i> ')
Description	The management process (mgd) created a child process to execute the indicated command for it. The child process received the indicated signal and stopped.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CHILD_WAITPID

System Log Message	UI_CHILD_WAITPID: waitpid failed: pid <i>process-id</i> , rc <i>return-code</i> , status <i>status-code</i> : <i>error-message</i>
Description	The management process (mgd) created a child process to execute a command for it. It could not wait for the child process to finish.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CMD_AUTH_REGEX_INVALID

System Log Message	UI_CMD_AUTH_REGEX_INVALID: Invalid ' <i>allow/deny</i> ' command authorization regular expression ' <i>regular-expression</i> ': <i>error-message</i>
Description	An operation that attempted to set command or configuration authorization included the indicated regular expression. The operation failed because the expression syntax was invalid.
Type	Error: An error occurred
Severity	error
Action	Correct any errors in the regular expression.

UI_CMDLINE_READ_LINE

System Log Message	UI_CMDLINE_READ_LINE: User ' <i>username</i> ', command ' <i>input</i> '
Description	The indicated user typed the indicated command at the CLI prompt and pressed the Enter key, sending the command string to the management process (mgd).
Type	Event: This message reports an event, not an error
Severity	info

UI_CMDSET_EXEC_FAILED

System Log Message	UI_CMDSET_EXEC_FAILED: Command execution failed for ' <i>command</i> ': <i>error-message</i>
Description	The management process (mgd) called the exec() system call while creating a child process to execute the indicated command for it. The system call failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CMDSET_FORK_FAILED

System Log Message	UI_CMDSET_FORK_FAILED: Unable to fork command ' <i>command</i> ': <i>error-message</i>
Description	The management process (mgd) invoked the fork() system call while creating a child process to execute the indicated command for it. The system call failed.
Type	Error: An error occurred
Severity	error
Cause	The Routing Engine is low on resources
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CMDSET_PIPE_FAILED

System Log Message	UI_CMDSET_PIPE_FAILED: Unable to create pipes for command ' <i>command</i> ': <i>error-message</i>
Description	The management process (mgd) created a child process to execute the indicated command for it. Its attempt to create pipes for communication with the child process failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CMDSET_STOPPED

System Log Message	UI_CMDSET_STOPPED: Command stopped: pid <i>process-id</i> , signal ' <i>signal</i> ' <i>core-dump</i> , command ' <i>command</i> '
Description	The management process (mgd) created a child process to execute the indicated command for it. The child process received the indicated signal and stopped.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_CMDSET_WEXITED

System Log Message	UI_CMDSET_WEXITED: Command exited: PID <i>process-id</i> , status <i>statuscode-dump</i> , command ' <i>command</i> '
Description	The management process (mgd) created a child process to execute the indicated command for it. The child process exited abnormally with the indicated status code.
Type	Error: An error occurred
Severity	notice
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_COMMIT

System Log Message	UI_COMMIT: User ' <i>username</i> ' performed 'commit'
Description	The indicated user performed a 'commit' operation, which activated the candidate configuration.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_AT

System Log Message	UI_COMMIT_AT: User ' <i>username</i> ' performed 'commit at <i>time</i> '
Description	The indicated user performed a 'commit at' operation, which scheduled the candidate configuration for activation at the indicated future time.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_AT_COMPLETED

System Log Message	UI_COMMIT_AT_COMPLETED: 'commit at' was successful
Description	Changes to the candidate configuration were activated at the time scheduled by a 'commit at' operation.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_AT_FAILED

System Log Message	UI_COMMIT_AT_FAILED: <i>reason</i> , scheduled commit cleared
Description	A 'commit at' operation did not complete, for the indicated reason.
Type	Error: An error occurred
Severity	error

UI_COMMIT_COMPRESS_FAILED

System Log Message	UI_COMMIT_COMPRESS_FAILED: Unable to compress file ' <i>filename</i> '
Description	As part of committing a new configuration, the management process (mgd) compresses and saves a copy of the configuration. mgd saved the configuration file in regular format because it could not compress it.
Type	Error: An error occurred
Severity	error
Cause	The Routing Engine is low on resources.
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_COMMIT_CONFIRMED

System Log Message	UI_COMMIT_CONFIRMED: User ' <i>username</i> ' performed 'commit confirmed'
Description	The indicated user performed the 'commit confirmed' operation, which activated the candidate configuration for 10 minutes. If the commit operation is not confirmed within that time, the management process (mgd) will roll back to the previous configuration.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_CONFIRMED_REMINDER

System Log Message	UI_COMMIT_CONFIRMED_REMINDER: 'commit confirmed' must be confirmed within <i>minutes</i> minutes
Description	A 'commit confirmed' operation has activated the candidate configuration temporarily. If the commit is not confirmed within the indicated number of minutes (for example, by the command-line interface (CLI) 'commit' command), the management process (mgd) will roll back to the previous configuration.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_CONFIRMED_TIMED

System Log Message	UI_COMMIT_CONFIRMED_TIMED: User ' <i>username</i> ' performed 'commit confirmed <i>minutes</i> '
Description	The indicated user performed the 'commit confirmed' operation, which activated the candidate configuration for the number of minutes specified. If the commit operation is not confirmed within that time, the management process (mgd) will roll back to the previous configuration.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_EMPTY_CONTAINER

System Log Message	UI_COMMIT_EMPTY_CONTAINER: Skipped empty object ' <i>node-name</i> '
Description	Some container objects are marked for automatic removal from the configuration hierarchy if they are empty when the user who created them changes to the top ([edit]) level of the hierarchy or exits configuration mode. While committing the candidate configuration, the management process (mgd) encountered such an object that was empty but not removed.
Type	Event: This message reports an event, not an error
Severity	info
Cause	When the commit operation began, the user who created the new container object had not populated it and was in configuration mode but not at the top level of the hierarchy.
Action	Populate or remove the empty object before committing the configuration. The user who created the object can remove it by exiting configuration mode or issuing the 'top' command to move to the top level of the hierarchy.

UI_COMMIT_NOT_CONFIRMED

System Log Message	UI_COMMIT_NOT_CONFIRMED: Commit was not confirmed; <i>message</i>
Description	The 'commit confirmed' operation commits a configuration but requires confirmation within a defined number of minutes for the commit to become permanent. If the commit is not confirmed (by the 'commit' command, for example), the management process (mgd) automatically rolls back to the previously committed configuration. The automatic rollback restores management access to the router in case an error in the configuration blocks access.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_QUIT

System Log Message	UI_COMMIT_QUIT: user ' <i>username</i> ' performed 'commit and-quit'
Description	The indicated user performed the 'commit and-quit' operation, which activated the candidate configuration and closed the command-line interface (CLI) configuration session.
Type	Event: This message reports an event, not an error
Severity	notice

UI_COMMIT_ROLLBACK_FAILED

System Log Message	UI_COMMIT_ROLLBACK_FAILED: Automatic rollback failed
Description	The 'commit confirmed' operation commits a configuration but requires confirmation within a defined number of minutes for the commit to become permanent. If the commit is not confirmed (by the 'commit' command, for example), the management process (mgd) automatically rolls back to the previously committed configuration. The 'commit confirmed' operation was not confirmed, but mgd could not roll back the configuration. The configuration might be in an indeterminate state.
Type	Error: An error occurred
Severity	error
Cause	The cause of the problem might be recorded in messages that precede this message in the system log file.

UI_DAEMON_ACCEPT_FAILED

System Log Message	UI_DAEMON_ACCEPT_FAILED: <i>Network/Local</i> socket connection accept failed: <i>error-message</i>
Description	The management process (mgd) did not accept an incoming connection request.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_DAEMON_FORK_FAILED

System Log Message	UI_DAEMON_FORK_FAILED: Unable to create session child: <i>error-message</i>
Description	The management process (mgd) invokes the fork() system call to create a copy of itself for each CLI session. The system call failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_DAEMON_SELECT_FAILED

System Log Message	UI_DAEMON_SELECT_FAILED: select failed: <i>error-message</i>
Description	The management process (mgd) uses the select() system call to listen for incoming connection requests on a socket. The system call failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_DAEMON_SOCKET_FAILED

System Log Message	UI_DAEMON_SOCKET_FAILED: <i>Network/Local</i> socket create failed: <i>error-message</i>
Description	The management process (mgd) uses sockets to communicate with other JUNOS software processes running on the router. It could not allocate a socket.
Type	Error: An error occurred
Severity	error
Cause	System resources are exhausted.
Action	Contact your technical support representative.

UI_DBASE_ACCESS_FAILED

System Log Message	UI_DBASE_ACCESS_FAILED: Unable to reaccess database file ' <i>database-filename</i> ', address <i>address</i> , size <i>size</i> : <i>reason</i>
Description	To increase the size of the configuration database, the management process (mgd) must unmap the database from its address space, change the database size, and remap the database. The remapping operation failed.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_DBASE_CHECKOUT_FAILED

System Log Message	UI_DBASE_CHECKOUT_FAILED: Database ' <i>database-filename</i> ' is out of data and needs to be rebuilt
Description	When the router boots, the management process (mgd) checks the configuration database for internal consistency. It found one or more inconsistencies.
Type	Event: This message reports an event, not an error
Severity	alert
Cause	mgd restarted after new JUNOS software was installed.
Action	None; mgd will rebuild the database.

UI_DBASE_EXTEND_FAILED

System Log Message	UI_DBASE_EXTEND_FAILED: Unable to extend database to size <i>requested-size</i> for file ' <i>database-filename</i> ': <i>reason</i>
Description	The management process (mgd) could not increase the configuration database to the indicated size.
Type	Error: An error occurred
Severity	error
Cause	The hard disk is not present in the router.
Action	Repair or replace the hard disk.
Cause	There is insufficient disk space on the /var partition on the hard disk.
Action	Delete user files from the /var/homes directory to increase the available disk space.

UI_DBASE_LOGIN_EVENT

System Log Message	UI_DBASE_LOGIN_EVENT: User ' <i>username</i> ' entering configuration mode
Description	The indicated user entered configuration mode (logged into the configuration database).
Type	Event: This message reports an event, not an error
Severity	notice

UI_DBASE_LOGOUT_EVENT

System Log Message	UI_DBASE_LOGOUT_EVENT: User ' <i>username</i> ' exiting configuration mode
Description	The indicated user exited configuration mode (logged out of the configuration database).
Type	Event: This message reports an event, not an error
Severity	notice

UI_DBASE_MISMATCH_EXTENT

System Log Message	UI_DBASE_MISMATCH_EXTENT: Database header extent mismatch for file ' <i>database-filename</i> ': expecting <i>expected-extent</i> , got <i>discovered-extent</i>
Description	The header in the configuration database records the highest address allocated in the database. The management process (mgd) discovered that the highest address actually allocated in the database does not match the header value.
Type	Error: An error occurred
Severity	error
Cause	The database file is corrupted.
Action	Contact your technical support representative.

UI_DBASE_MISMATCH_MAJOR

System Log Message	UI_DBASE_MISMATCH_MAJOR: Database header major version number mismatch for file ' <i>database-filename</i> ': expecting <i>expected-major-version</i> , got <i>discovered-major-version</i>
Description	For compatibility, the version number recorded in the header of the configuration database must match the version of JUNOS software running on the router. The management process (mgd) discovered that the major parts (for example, '5' in '5.x') of the version numbers do not match.
Type	Error: An error occurred
Severity	error
Cause	A recent software upgrade did not complete successfully.
Action	Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system software reboot' command to reboot the router and complete the software installation.
Cause	The database file is corrupted.
Action	Contact your technical support representative.

UI_DBASE_MISMATCH_MINOR

System Log Message	UI_DBASE_MISMATCH_MINOR: Database header minor version number mismatch for file ' <i>database-filename</i> ': expecting <i>expected-minor-version</i> , got <i>discovered-minor-version</i>
Description	For compatibility, the version number recorded in the header of the configuration database must match the version of JUNOS software running on the router. The management process (mgd) discovered that the minor parts (for example, '2' in 'x.2') of the version numbers do not match.
Type	Error: An error occurred
Severity	error
Cause	A recent software upgrade did not complete successfully.
Action	Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system software reboot' command to reboot the router and complete the software installation.
Cause	The database file is corrupted.
Action	Contact your technical support representative.

UI_DBASE_MISMATCH_SEQUENCE

System Log Message	UI_DBASE_MISMATCH_SEQUENCE: Database header sequence numbers mismatch for file ' <i>database-filename</i> '
Description	The header of the configuration database records the version number of the configuration schema (possible set of statements) used when the database was created. To prevent corruption, all JUNOS processes that access the database must use the same schema. The management process (mgd) discovered that the version number for the JUNOS software installed on the router does not match the header value.
Type	Error: An error occurred
Severity	error
Cause	A recent software upgrade did not complete successfully.
Action	Issue the 'show version' command to check the JUNOS version. If necessary, issue the 'request system software reboot' command to reboot the router and complete the software installation.
Cause	The database file is corrupted.
Action	Contact your technical support representative.

UI_DBASE_MISMATCH_SIZE

System Log Message	UI_DBASE_MISMATCH_SIZE: Database header size mismatch for file ' <i>database-filename</i> ': expecting <i>expected-size</i> , got <i>discovered-size</i>
Description	The header of the configuration database records the database size. The management process (mgd) discovered that the size of the actual database file does not match the header value.
Type	Error: An error occurred
Severity	error
Cause	The database file is corrupted.
Action	Contact your technical support representative.

UI_DBASE_OPEN_FAILED

System Log Message	UI_DBASE_OPEN_FAILED: Database open failed for file ' <i>database-filename</i> ': <i>reason</i>
Description	The management process (mgd) could not open the indicated configuration database file.
Type	Error: An error occurred
Severity	error
Cause	The database file does not exist.
Action	Select a different filename or create a new configuration.
Cause	The /config directory does not have sufficient space for a new database.
Action	Remove files from the /config directory to make more space available.

UI_DBASE_REBUILD_FAILED

System Log Message	UI_DBASE_REBUILD_FAILED: <i>User< username> /Automatic</i> rebuild of the database ' <i>database-filename</i> ' failed
Description	The management process (mgd) could not rebuild the configuration database file.
Type	Error: An error occurred
Severity	alert
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_DBASE_REBUILD_SCHEMA_FAILED

System Log Message	UI_DBASE_REBUILD_SCHEMA_FAILED: Automatic rebuild of the database failed
Description	The management process (mgd) could not rebuild the schema for the configuration database.
Type	Error: An error occurred
Severity	alert
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_DBASE_REBUILD_STARTED

System Log Message	UI_DBASE_REBUILD_STARTED: <i>User< username> /Automatic rebuild/rollback of the database 'database-filename' started</i>
Description	The management process (mgd) began to rebuild the configuration database file or its schema because that object was not current. The operation will complete shortly.
Type	Event: This message reports an event, not an error
Severity	alert

UI_DBASE_RECREATE

System Log Message	UI_DBASE_RECREATE: User ' <i>username</i> ' attempting database recreation
Description	The management process (mgd) discovered that the version of JUNOS software running on the router does not match the version of the current configuration database. In response to a prompt from mgd, the indicated user initiated a rebuilding of the database.
Type	Event: This message reports an event, not an error
Severity	notice

UI_DBASE_REOPEN_FAILED

System Log Message	UI_DBASE_REOPEN_FAILED: Reopen of the database failed
Description	After rebuilding the schema file for the configuration database, the management process (mgd) closes the file and reopens it in read-only mode to prevent corruption. It could not reopen the file.
Type	Error: An error occurred
Severity	alert
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_JUNOSCRIPT_ERROR

System Log Message	UI_JUNOSCRIPT_ERROR: JUNOScript error: <i>error-message</i>
Description	The management process (mgd) normally sends an error message to the JUNOS CLI or JUNOScript API client in an < xnm:error> tag. It could not send the tag, so it sent the indicated error message in an XML comment instead.
Type	Error: An error occurred
Severity	warning
Cause	The 'error-message' argument explains the problem.

UI_LOAD_EVENT

System Log Message	UI_LOAD_EVENT: User ' <i>username</i> ' is performing a ' <i>rollback/load/load override</i> '
Description	The indicated user invoked a 'rollback', 'load', or 'load override' operation as indicated. The existing configuration database was deleted and a new database created based on a text file.
Type	Event: This message reports an event, not an error
Severity	notice

UI_LOGIN_EVENT

System Log Message	UI_LOGIN_EVENT: User ' <i>username</i> ' login, class ' <i>class</i> ' <i>local-name</i> [<i>process-id</i>]
Description	The indicated user started a JUNOS CLI session.
Type	Event: This message reports an event, not an error
Severity	info

UI_LOGOUT_EVENT

System Log Message	UI_LOGOUT_EVENT: User ' <i>username</i> ' logout
Description	The indicated user exited from a JUNOS CLI session.
Type	Event: This message reports an event, not an error
Severity	info

UI_LOST_CONN

System Log Message	UI_LOST_CONN: Lost connection to daemon ' <i>daemon-name</i> '
Description	The management process (mgd) uses sockets to communicate with other JUNOS software processes. The socket it was using for the indicated process closed prematurely.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_MASTERSHIP_EVENT

System Log Message	UI_MASTERSHIP_EVENT: <i>Force/Acquire/Release/Toggle card-name</i> mastership by ' <i>username</i> '
Description	Some redundant router components use a master/standby system in which the master component is active and the standby is inactive but ready to assume mastership. The indicated user performed the indicated operation to modify component mastership.
Type	Event: This message reports an event, not an error
Severity	warning

UI_MGD_TERMINATE

System Log Message	UI_MGD_TERMINATE: Terminating operation: exit status <i>exit-code</i>
Description	The management process (mgd) encountered an error and exited, returning the indicated code as its exit status code.
Type	Error: An error occurred
Severity	error
Cause	The cause of the problem might be recorded in messages that precede this message in the system log file.

UI_READ_FAILED

System Log Message	UI_READ_FAILED: read failed for peer <i>peer-name</i> : <i>error-message</i>
Description	The management process (mgd) uses the read() system call to access data sent by other JUNOS processes running on the router (referred to as its peers). The system call failed for the indicated process.
Type	Error: An error occurred
Severity	error
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_READ_TIMEOUT

System Log Message	UI_READ_TIMEOUT: Timeout on read of peer ' <i>peer-name</i> '
Description	When communicating with other JUNOS processes running on the router (referred to as peers), the management process (mgd) waits only for a defined timeout period for responses to arrive. The timeout period passed for the indicated process.
Type	Event: This message reports an event, not an error
Severity	notice

UI_REBOOT_EVENT

System Log Message	UI_REBOOT_EVENT: System <i>halt/reboot</i> by ' <i>username</i> '
Description	The indicated software process restarted as requested by the indicated user.
Type	Event: This message reports an event, not an error
Severity	warning

UI_RESTART_EVENT

System Log Message	UI_RESTART_EVENT: User ' <i>username</i> ' restarts daemon ' <i>daemon</i> ' <i>description</i>
Description	The indicated software process restarted as requested by the indicated user.
Type	Event: This message reports an event, not an error
Severity	warning

UI_SCHEMA_CHECKOUT_FAILED

System Log Message	UI_SCHEMA_CHECKOUT_FAILED: Schema is out of date and needs to be rebuilt
Description	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. While initializing, the new management process (mgd) determined that the schema's sequence number means that the schema is incompatible with the JUNOS software installed on the router.
Type	Error: An error occurred
Severity	alert
Cause	The schema is out of date.
Action	None; mgd will rebuild the schema based on the current JUNOS version.

UI_SCHEMA_MISMATCH_MAJOR

System Log Message	UI_SCHEMA_MISMATCH_MAJOR: Schema major version mismatch for pkg <i>package-number</i> (<i>expected</i> .vs. <i>offered</i>)
Description	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. While initializing, the management process (mgd) discovered that the major part (for example, '5' in '5.x') of the schema version number does not match the major version number of the JUNOS software installed on the router. The mismatch could lead to corruption of the configuration database.
Type	Error: An error occurred
Severity	error
Cause	The schema is incompatible with the installed JUNOS software.
Action	None; mgd will rebuild the schema based on the current JUNOS version.
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_SCHEMA_MISMATCH_MINOR

System Log Message	UI_SCHEMA_MISMATCH_MINOR: Schema minor version mismatch for pkg <i>package-number</i> (<i>expected</i> .vs. <i>offered</i>)
Description	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. While initializing, the management process (mgd) discovered that the minor part (for example, '2' in 'x.2') of the schema version number does not match the major version number of the JUNOS software installed on the router. The mismatch could lead to corruption of the configuration database.
Type	Error: An error occurred
Severity	error
Cause	The schema is incompatible with the installed JUNOS software.
Action	None; mgd will rebuild the schema based on the current JUNOS version.
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_SCHEMA_MISMATCH_SEQUENCE

System Log Message	UI_SCHEMA_MISMATCH_SEQUENCE: Schema header sequence numbers mismatch for pkg <i>package-number</i>
Description	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. Schema sequence numbers serve as a checksum of the configuration data schema and ensure that the software used to access the database understands the data. The value in the database file did not match the expected value.
Type	Error: An error occurred
Severity	error
Cause	Broken software installation.
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_SCHEMA_SEQUENCE_ERROR

System Log Message	UI_SCHEMA_SEQUENCE_ERROR: Schema: sequence number mismatch
Description	The JUNOS user interface schema file records all CLI commands and configuration statements available in the JUNOS software. The management process (mgd) rebuilds the schema as necessary to be compatible with the JUNOS software installed on the router. A sequence number in the schema acts as a checksum that represents its content and format. A JUNOS process attempted to access the schema but determined that the schema's sequence number means that it is incompatible with the process.
Type	Error: An error occurred
Severity	alert
Cause	An internal software failure occurred.
Action	Contact your technical support representative.

UI_VERSION_FAILED

System Log Message	UI_VERSION_FAILED: Unable to fetch system version: <i>error-message</i>
Description	The management process (mgd) could not retrieve version information from the kernel.
Type	Error: An error occurred
Severity	error
Action	Contact your technical support representative.

UI_WRITE_RECONNECT

System Log Message	UI_WRITE_RECONNECT: Re-establishing connection to peer ' <i>peer-name</i> '
Description	The management process (mgd) reconnected to the indicated JUNOS process running on the router.
Type	Event: This message reports an event, not an error
Severity	notice

Part 3

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